

Front



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(Note.11)

GB4943.1

CNS15598-1

KC62368-1 (By request)

TPTC004

IS13252 (By request) (Note.13)



## Features

- 85~305Vac input with PFC(277Vac available)
- Global certificates in multi-fields (ITE 62368-1, Medical 60601-1, Household 60335-1, Industrial 61558-1/2-16/61010-1/2-201, Energy converter 62477-1), SEMI F47 at 200Vac
- 200% peak power capability
- High efficiency up to 93%
- Output voltage 0~120% and output current 0~100% programmable
- Current sharing up to 9600W(3+1) for parallel use
- Built in ORing MOS By request, Order NO. : NSP-2400-xxOR/MODOR
- CANBus(Built in) or MODBus protocol (By request)
- 40~85°C wide range operation temperature(> +60°C derating)
- Extremely low leakage current<500uA, 2 x MOPP, suitable for BF medical applications
- Built-in constant current limiting circuit
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in remote ON/OFF control/Remote Sense/ DC OK signal
- Auxiliary 5Vdc and 12Vdc
- Over voltage category III (OVC III)
- Operating altitude up to 5000 meters
- Built-in intelligent fan speed control, low noise <46dB
- Conformal coating
- 5 years warranty

## Description

The NSP-2400 series is a 2400W AC/DC power supply with PFC function, designed for high reliability and suitable for multiple industries. Key features include: compact size (325.8\*107\*41mm) for better space utilization in system installations, ultra-wide input range of 85~305Vac for global compatibility, up to 93% efficiency, programmable output voltage (0~120%) and current (0~100%), constant current design with 200% peak power capability, parallel output capacity up to 9600W, built-in CANBus communication interface, wide operating temperature range from -40 to +85°C (+60°C at full load), compliance with OVCIII, built-in Remote Control /Remote Sense/DC OK signal/auxiliary power, internal PCB coating, complete protections, certifications for multiple safety standards including 62368-1, 60601-1, 61558-1, 60335-1, 62477-1, and 61010-1, as well as 2 X MOPP compliance and extremely low leakage current (<500uA). It is suitable for BF-rated medical equipment and comes with a 5-years warranty, making it a highly cost-effective solution for industrial power supply needs.

## Model Encoding

NSP - 2400 - 48 MOD

Communication protocol option

Output voltage (12V/15V/24V/27V/36V/48V/60V)

Rated wattage

Series name

| Type  | Communication Protocol | Note       |
|-------|------------------------|------------|
| Blank | CANBus protocol        | In Stock   |
| MOD   | MODBus protocol        | By request |

## Applications

- Industrial automation machinery/ control system
- Security system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- Network equipment
- Telecom devices
- Power sourcing equipment of PoE
- Home automation
- Medical devices
- Supercapacitor

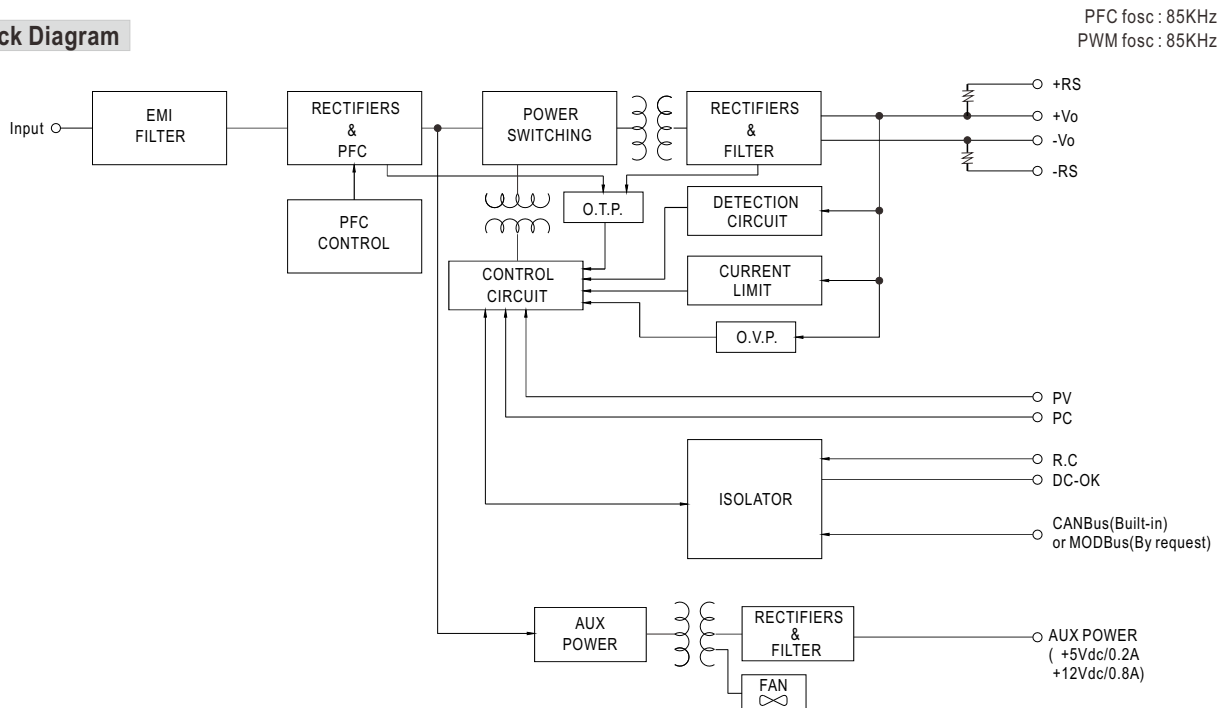
## GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

| SPECIFICATION                                    |                                 | NSP-2400-12                                                                                                                                                                               | NSP-2400-15  | NSP-2400-24  | NSP-2400-27  | NSP-2400-36  | NSP-2400-48 | NSP-2400-60 |
|--------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|-------------|-------------|
|                                                  |                                 | =Blank (standard model in stock), MOD (By request model)                                                                                                                                  |              |              |              |              |             |             |
|                                                  |                                 |                                                                                                                                                                                           |              |              |              |              |             |             |
| OUTPUT                                           |                                 |                                                                                                                                                                                           |              |              |              |              |             |             |
| DC VOLTAGE                                       |                                 | 12V                                                                                                                                                                                       | 15V          | 24V          | 27V          | 36V          | 48V         | 60V         |
| CURRENT                                          |                                 | 183.3A                                                                                                                                                                                    | 146.7A       | 100A         | 88.8A        | 66.6A        | 50A         | 40A         |
| CURRENT RANGE                                    |                                 | 0 ~ 183.3A                                                                                                                                                                                | 0 ~ 146.7A   | 0 ~ 100A     | 0 ~ 88.8A    | 0 ~ 66.6A    | 0 ~ 50A     | 0 ~ 40A     |
| RATED POWER                                      |                                 | 2200W                                                                                                                                                                                     | 2200W        | 2400W        | 2397W        | 2397W        | 2400W       | 2400W       |
| PEAK                                             | Note.2<br>CURRENT<br>POWER      | 366.6A                                                                                                                                                                                    | 293.3A       | 200A         | 177.6A       | 133A         | 100A        | 80A         |
|                                                  |                                 | 4400W                                                                                                                                                                                     | 4400W        | 4800W        | 4795W        | 4795W        | 4800W       | 4800W       |
| RIPPLE & NOISE (max.)                            |                                 | Note.3<br>300mVp-p                                                                                                                                                                        | 300mVp-p     | 300mVp-p     | 300mVp-p     | 350mVp-p     | 450mVp-p    | 600mVp-p    |
| VOLTAGE ADJ. RANGE                               |                                 | 10.8 ~ 14.4V                                                                                                                                                                              | 13.5 ~ 19V   | 21.6 ~ 28.8V | 24.3 ~ 32.4V | 32.4 ~ 43.2V | 43.2 ~ 55V  | 54 ~ 72V    |
| VOLTAGE TOLERANCE                                |                                 | Note.4<br>± 1.0%                                                                                                                                                                          |              |              |              |              |             |             |
| LINE REGULATION                                  |                                 | ± 0.5%                                                                                                                                                                                    |              |              |              |              |             |             |
| LOAD REGULATION                                  |                                 | ± 0.5%                                                                                                                                                                                    |              |              |              |              |             |             |
| SETUP, RISE TIME                                 |                                 | Note.5<br>1800ms, 60ms/115Vac; 1800ms, 60ms/230Vac; 1800ms, 60ms/277Vac at full load                                                                                                      |              |              |              |              |             |             |
| HOLD UP TIME (Typ.)                              |                                 | 12ms @ 70% load, 8ms @full load                                                                                                                                                           |              |              |              |              |             |             |
| INPUT                                            |                                 |                                                                                                                                                                                           |              |              |              |              |             |             |
| VOLTAGE RANGE                                    |                                 | Note.6<br>85 ~ 305Vac                                                                                                                                                                     | 250 ~ 431Vdc |              |              |              |             |             |
| FREQUENCY RANGE                                  |                                 | 47 ~ 63Hz                                                                                                                                                                                 |              |              |              |              |             |             |
| POWER FACTOR (Typ.)                              |                                 | 0.98/115Vac 0.95/230Vac 0.93/277Vac at full load                                                                                                                                          |              |              |              |              |             |             |
| EFFICIENCY (Typ.)                                |                                 | 89%                                                                                                                                                                                       | 90%          | 91%          | 91%          | 91.5%        | 92%         | 93%         |
| AC CURRENT (Typ.)                                |                                 | 17A/115Vac 13A/230Vac 11A/277Vac                                                                                                                                                          |              |              |              |              |             |             |
| INRUSH CURRENT (Typ.)                            |                                 | COLD START 30A/115Vac 60A/230Vac 75A/277Vac                                                                                                                                               |              |              |              |              |             |             |
| LEAKAGE CURRENT                                  |                                 | Earth leakage current <500μA(rms)@277Vac ; Touch current<100μA(rms) @ 277Vac                                                                                                              |              |              |              |              |             |             |
| PROTECTION                                       |                                 |                                                                                                                                                                                           |              |              |              |              |             |             |
| SHORT CIRCUIT                                    | PEAK POWER MODE                 | Constant current limiting, unit will shut down after 5 Sec, AC repower on to recover. (2 Sec for 12V/15V models)                                                                          |              |              |              |              |             |             |
|                                                  | Note.7<br>CURRENT LIMITING MODE | Constant current limiting, recovers automatically after abnormal condition is removed                                                                                                     |              |              |              |              |             |             |
| OVERLOAD                                         | PEAK POWER MODE                 | From 105% to 200% of rated output power, unit will shut down after 5 seconds of continuous operation. AC repower on to recover. (2 Sec for 12V/15V models)                                |              |              |              |              |             |             |
|                                                  |                                 | At >200% of rated output power, constant current limiting is activated. Unit will shut down after 5 seconds of continuous operation. AC repower on to recover. (2 Sec for 12V/15V models) |              |              |              |              |             |             |
|                                                  | Note.8<br>CURRENT LIMITING MODE | Constant current limiting, recovers automatically after abnormal condition is removed                                                                                                     |              |              |              |              |             |             |
| OVER VOLTAGE                                     |                                 | 15 ~ 19V                                                                                                                                                                                  | 20 ~ 25V     | 29 ~ 37V     | 33 ~ 42V     | 44 ~ 54V     | 56 ~ 60V    | 73 ~ 86V    |
|                                                  |                                 | Protection type : Shut down and latch off output voltage, re-power on to recover                                                                                                          |              |              |              |              |             |             |
| OVER TEMPERATURE                                 |                                 | Shut down output voltage, recovers automatically after temperature goes down                                                                                                              |              |              |              |              |             |             |
| FUNCTION                                         |                                 |                                                                                                                                                                                           |              |              |              |              |             |             |
| OUTPUT CURRENT PROGRAMMABLE(PC)                  |                                 | Adjustment of constant current level is allowable between 0 ~ 100% of rated current. Please refer to the User Manual.                                                                     |              |              |              |              |             |             |
| OUTPUT VOLTAGE PROGRAMMABLE(PV)                  |                                 | Adjustment of output voltage is allowable to 0 ~ 120% of nominal output voltage. Please refer to the User Manual.                                                                         |              |              |              |              |             |             |
| Note.9                                           |                                 |                                                                                                                                                                                           |              |              |              |              |             |             |
| PARALLEL                                         |                                 | Up to 9600W or (3+1) units. Please refer to the User Manual.                                                                                                                              |              |              |              |              |             |             |
| AUXILIARY POWER                                  |                                 | 5Vaux @ 0.2A Tolerance ± 15%, ripple 150mVp-p                                                                                                                                             |              |              |              |              |             |             |
|                                                  |                                 | 12Vaux @ 0.8A Tolerance ± 15%, ripple 450mVp-p                                                                                                                                            |              |              |              |              |             |             |
| REMOTE CONTROL                                   |                                 | By electrical signal or dry contact Power ON: RC short Power OFF: RC open                                                                                                                 |              |              |              |              |             |             |
| REMOTE SENSE                                     |                                 | Compensate voltage drop on the load wiring up to 0.5Vdc                                                                                                                                   |              |              |              |              |             |             |
| DC OK SIGNAL                                     |                                 | Contact rating(max.):5Vdc/10mA resistive load                                                                                                                                             |              |              |              |              |             |             |
| CANBus(BUILT-IN) or MODBus(By Request) INTERFACE |                                 | Communication provides functions such as control, setting and monitoring                                                                                                                  |              |              |              |              |             |             |
| FAN NOISE (Typ.)                                 | Note.10                         | Built-in intelligent fan speed control detect by PSU'S internal temperature                                                                                                               |              |              |              |              |             |             |
|                                                  | 10% load with Ta=25℃            | 38dB                                                                                                                                                                                      |              |              |              |              |             |             |
|                                                  | 70% load with Ta=25℃            | 46dB                                                                                                                                                                                      | 44dB         | 44dB         | 42dB         | 38dB         | 40dB        | 41dB        |
| ENVIRONMENT                                      |                                 |                                                                                                                                                                                           |              |              |              |              |             |             |
| WORKING TEMP.                                    |                                 | -40 ~ +85℃ (Refer to "Derating Curve")                                                                                                                                                    |              |              |              |              |             |             |
| WORKING HUMIDITY                                 |                                 | 20 ~ 90% RH non-condensing                                                                                                                                                                |              |              |              |              |             |             |
| STORAGE TEMP., HUMIDITY                          |                                 | -40 ~ +85℃, 10 ~ 95% RH non-condensing                                                                                                                                                    |              |              |              |              |             |             |
| TEMP. COEFFICIENT                                |                                 | ± 0.03%/℃ (0 ~ 60℃)                                                                                                                                                                       |              |              |              |              |             |             |
| VIBRATION                                        |                                 | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes                                                                                                                              |              |              |              |              |             |             |

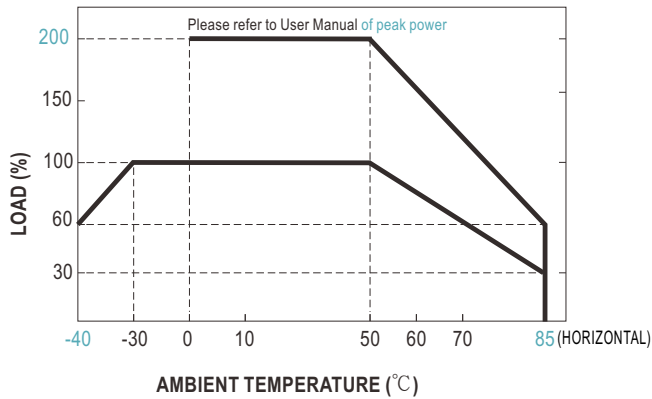
| SAFETY & EMC(Note 11~13)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                        |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
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| SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | CB<br>DEKRA<br><br>UL<br>CQC<br>BSMI<br>EAC<br>SEMI F47<br>KC/BIS                                                                                      |                                                                                                                                         | IEC62368-1, IEC60335-1, IEC61558-1/-2-16, IEC61010-1/-2-201, IEC60601-1; IEC62477-1<br>BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, BS EN/EN61010-1/-2-201, BS EN/EN60601-1(3.2 Version);BS EN/EN62477-1<br>UL62368-1, ANSI/AAMI ES60601-1(3.2 Version),UL61010-1/-2-201<br>GB4943.1<br>CNS15598-1<br>TP TC 004<br>approved<br>KC 62368-1 and BIS IS 13252(Part 1) certified, No stock, contact sales by request |                                                                             |
| ISOLATION LEVEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Note.14                                                                                                                                                | Primary-Secondary: 2xMOPP, Primary-Earth: 1xMOPP, Secondary-Earth: 1xMOPP                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| OVER VOLTAGE CATEGORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Note.15                                                                                                                                                | IEC/EN 61558-1/-2-16<br>IEC/EN/UL 62368-1<br>IEC/EN 60335-1<br>IEC/EN/ANSI/AAMI ES60601-1<br>IEC/EN/UL 61010-1/-2-201<br>IEC/EN 62477-1 | (OVC III, altitude up to 2000M)<br>(OVC II, altitude up to 5000M)<br>(OVC II, altitude up to 5000M)<br>(OVC II, altitude up to 4000M)<br>(OVC II, altitude up to 5000M)<br>(OVC II, altitude up to 5000M)                                                                                                                                                                                                                    |                                                                             |
| SAFETY EXTRA-LOW VOLTAGE(SELV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | IEC/EN 61558-2-16 (SELV, 12 ~ 60V)<br>IEC/EN 60335-1 (SELV, 12 ~ 36V)<br>IEC/EN/UL 62368-1 (SELV/ES1, 12 ~ 48V)                                        |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | I/P-O/P:4KVac I/P-FG:2KVac O/P-FG:1.5KVac                                                                                                              |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH                                                                                              |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Parameter                                                                                                                                              | Standard                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                              | Test Level / Note                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Conducted                                                                                                                                              | BS EN/EN55032(CISPR32),CNS 15936,GB/T 9254.1,KS C 9832                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              | Class B                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                        | BS EN/EN55014-1(CISPR14-1)                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                        | BS EN/EN55011(CISPR11)                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              | Class B                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Radiated                                                                                                                                               | BS EN/EN55032(CISPR32),CNS 15936,GB/T 9254.1,KS C 9832                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              | Class B                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                        | BS EN/EN55014-1(CISPR14-1)                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                        | BS EN/EN55011(CISPR11)                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              | Class B                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Harmonic Current                                                                                                                                       | BS EN/EN61000-3-2(IEC61000-3-2),GB 17625.1                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                              | Class A                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Voltage Flicker                                                                                                                                        | BS EN/EN61000-3-3(IEC61000-3-3)                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | -----                                                                       |
| EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | BS EN/EN55035(CISPR35),BS EN/EN61000-6-2(IEC61000-6-2),BS EN/EN60601-1-2(IEC60601-1-2), BS EN/EN55014-2(CISPR14-2),KS C 9835,SEMI F47 tested at 200Vac |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Parameter                                                                                                                                              | Standard                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                              | Test Level / Note                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | ESD                                                                                                                                                    | BS EN/EN61000-4-2                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | Level 4, 15KV air ; Level 4, 8KV contact                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Radiated                                                                                                                                               | BS EN/EN61000-4-3                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | Level 3, 10V/m(80MHz~2.7GHz)<br>Table 9, 9~28V/m(385MHz~5.78GHz)            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | EFT / Burst                                                                                                                                            | BS EN/EN61000-4-4                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | Level 3, 2KV                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Surge                                                                                                                                                  | BS EN/EN61000-4-5                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | Level 4, 2KV/Line-Line 4KV/Line-Earth                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Conducted                                                                                                                                              | BS EN/EN61000-4-6                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | Level 3, 10V                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Magnetic Field                                                                                                                                         | BS EN/EN61000-4-8                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | Level 4, 30A/m                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Voltage Dips and Interruptions                                                                                                                         | BS EN/EN61000-4-11                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                              | >95% dip 0.5 periods, 30% dip 25 periods,<br>>95% interruptions 250 periods |
| OTHERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                        |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 566.1K hrs min. Telcordia SR-332 (Bellcore) ; 47.3K hrs min. MIL-HDBK-217F (25℃)                                                                       |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| DIMENSION (L*W*H)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 325.8*107*41mm                                                                                                                                         |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 2.32Kg;4pcs/10.3Kg/1.09CUFT                                                                                                                            |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| NOTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                        |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature.<br>2. The peak power duration is 2 seconds for 12V/15V models and 5 seconds for all other models.<br>3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.<br>4. Tolerance: includes set up tolerance, line regulation and load regulation.<br>5. Setup time is measured at the first cold start.<br>6. Derating may be required at low input voltages; refer to the "Static Characteristics" section for details.<br>7. Operation under stabilized output voltage may trigger protective shutdown.<br>8. For details on the overload protection mode, refer to the "Overload Protection Mode" section in the User Manual.<br>9. When the output voltage is adjusted via the PV function, the output ripple and noise may exceed the specified limits under certain operating conditions.<br>10. Fan noise measurement is performed in accordance with ISO 7779.<br>11. The Regulatory Compliance Mark (RCM) is applied on a voluntary basis. The equipment meets the relevant IEC or AS/NZS standards, or AS/NZS 3820 where applicable. The use of the RCM mark complies with AS/NZS 4417.1.<br>12. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."<br>(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )<br>13. The BIS marking may not be available for certain manufacturing sites or models. Please contact your MEAN WELL sales rep for further information.<br>14. MOPP is suitable for 100-240Vac input only.<br>15. The ambient temperature derating of 3.5℃/1000m with fanless models and 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |  |                                                                                                                                                        |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |

### Block Diagram

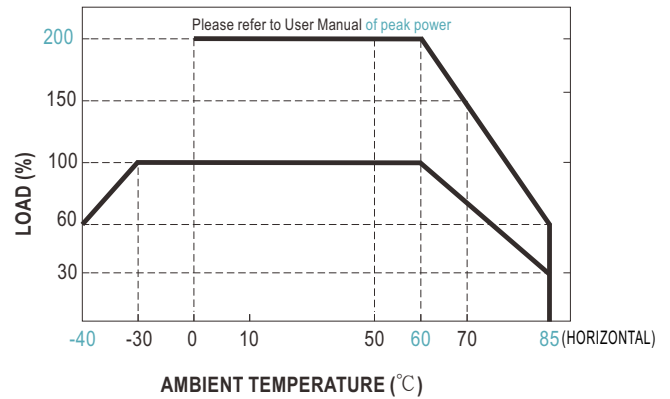


### Derating Curve

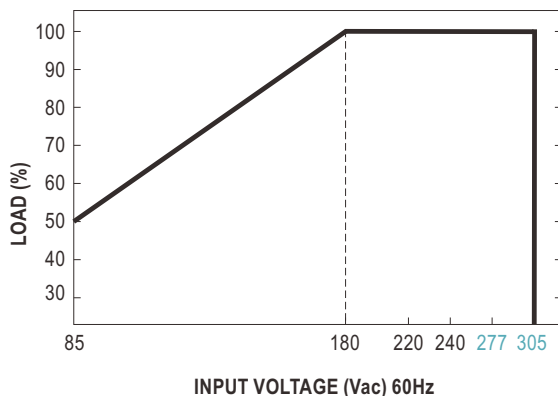
◎ 12V/15V



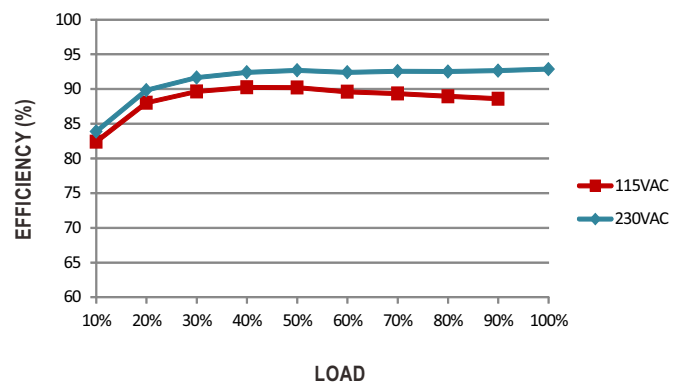
◎ Others



### Static Characteristics



### Efficiency vs Load (48V Model)



◎ The curve above is measured at 115/230Vac.

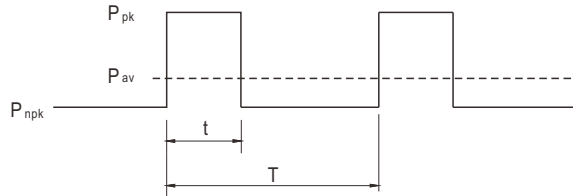
## User Manual

### 1. Peak Power

$$P_{av} = \frac{P_{pk} \times t + P_{npk} \times (T-t)}{T} \leq P_{rated}$$

$$\text{Duty} = \frac{t}{T} \times 100\% \leq 35\%$$

$$t \leq 5 \text{ sec}$$



$P_{av}$  : Average output power(W)

$P_{pk}$  : Peak output power(W)

$P_{npk}$  : Non-peak output power(W)

$P_{rated}$  : Rated output power(W)

$t$  : Peak power width(sec)

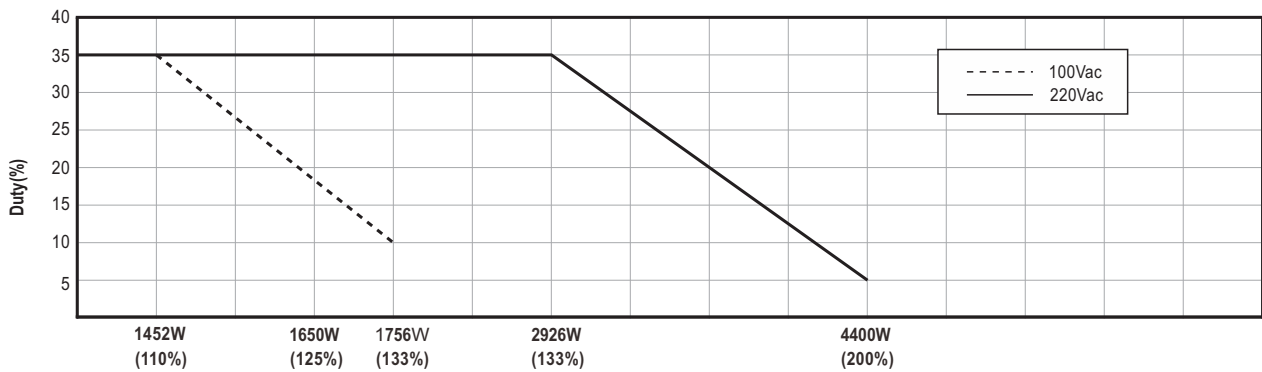
$T$  : Period(sec)

Note:

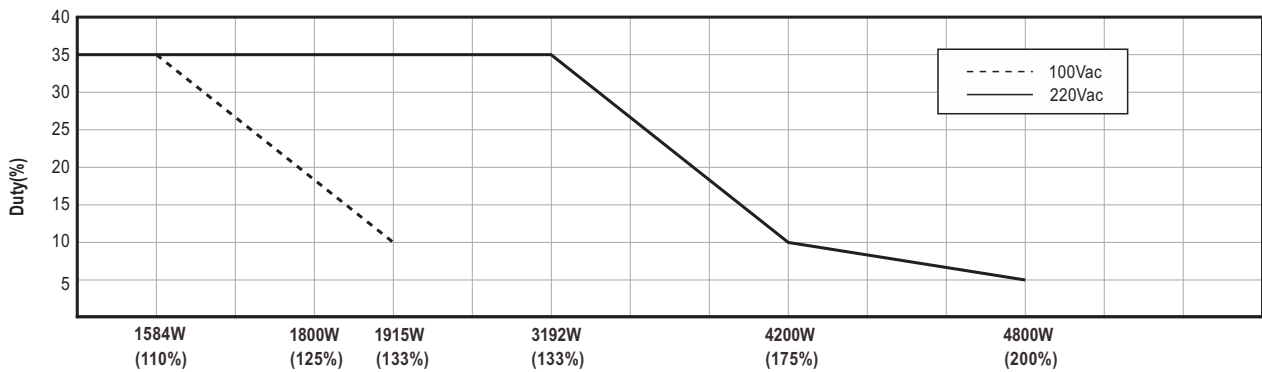
For 12V/15V models,  $t \leq 2 \text{ sec}$ .

For other models,  $t \leq 5 \text{ sec}$ .

### 12V/15V



### Others



Peak output power (W)

#### For example (24V model)

$V_{in}=220\text{Vac}$ ,  $\text{Duty}_{max}=5\%$

$P_{av}=P_{rated}=2400\text{W}$

$P_{pk}=4800\text{W}$

$t \leq 5\text{sec}$

$$T \geq \frac{5\text{sec}}{5\%} = 100\text{sec}$$

$$P_{npk} \leq \frac{T \times P_{av} - t \times P_{pk}}{T-t} = 2273.8\text{W}$$

|                                                              | 12V/15V                                         | Others                                           |
|--------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| $P_{pk}$                                                     | 4400W                                           | 4800W                                            |
| $P_{av}$                                                     | 1980W                                           | 2400W                                            |
| Duty_max                                                     | 5%                                              | 5%                                               |
| $t$                                                          | $t \leq 2$                                      | $t \leq 5$                                       |
| $T$                                                          | $T \geq \frac{2\text{sec}}{5\%} = 40\text{sec}$ | $T \geq \frac{5\text{sec}}{5\%} = 100\text{sec}$ |
| $P_{npk} \leq \frac{T \times P_{av} - t \times P_{pk}}{T-t}$ | 1853W                                           | 2274W                                            |

Note:

Input  $\geq 220 \text{ Vac}$ : Peak power = 2 × rated power

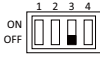
Input  $< 220 \text{ Vac}$ : Peak power = 1.33 × rated power

For 12V and 15V models, the average output power is limited to 90% of the rated output power.

## 2. Output Voltage Programming (P.V)

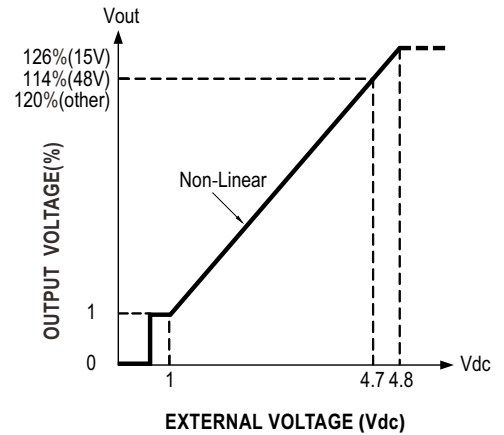
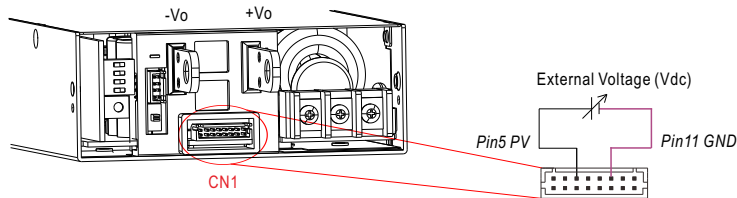
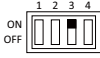
(1) Default by potentiometer (SVR)

- Have the DIP switch position-3 set as
- Output voltage can be trimmed by SVR.



(2) By Output Voltage Programming

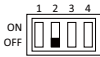
- Have the DIP switch position-3 set as
- The output voltage can be trimmed to 0~120% by applying EXTERNAL VOLTAGE between PV and GND on CN1.



## 3. Output Current Programming (P.C)

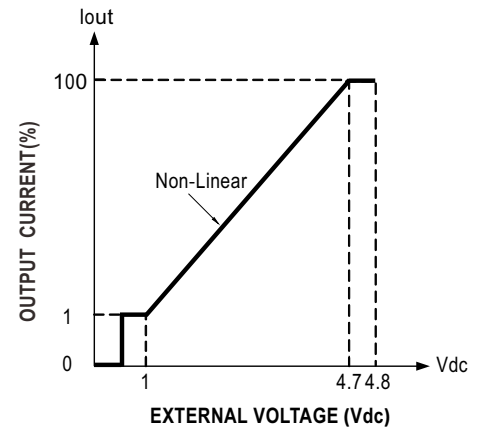
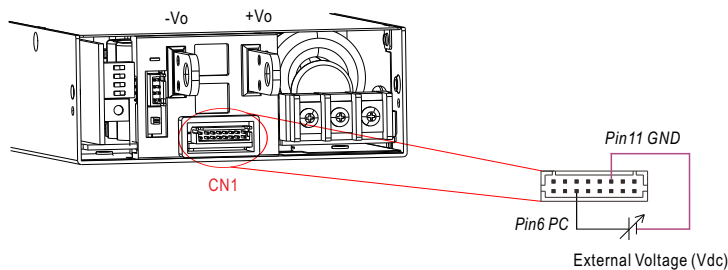
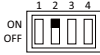
(1) Default Overload Protection (OLP) value

- Have the DIP switch position-2 set as
- Output current is set default value.



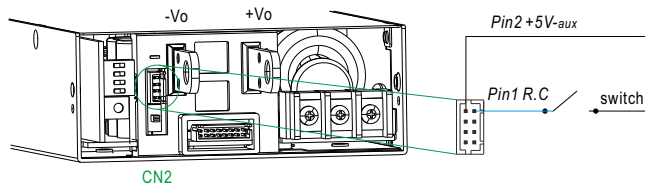
(2) By Constant Current Level Programming

- Have the DIP switch position-2 set as
- The constant current level can be trimmed to 0~100% of the rated current by applying EXTERNAL VOLTAGE between PC and GND on CN1.



## 4. Remote Control

※ The power supply can be turned ON/OFF individually or along with other units by using the "Remote Control" function with external switch, photocoupler or relay.

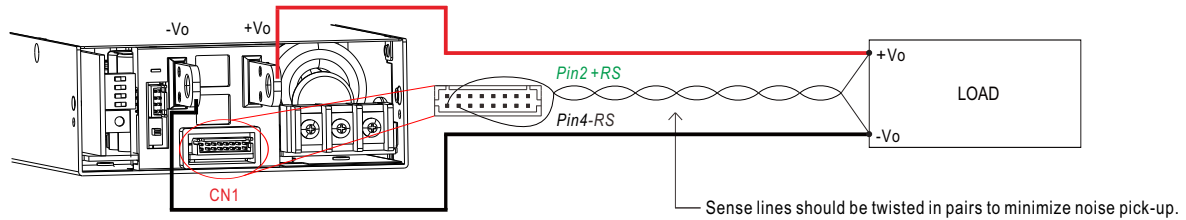


| PSU Vo Status | Between +5V-aux(Pin 2) and R.C(Pin 1) |
|---------------|---------------------------------------|
| Power ON      | Switch Short                          |
| Power OFF     | Switch Open                           |

|                          |                                            |                                      |
|--------------------------|--------------------------------------------|--------------------------------------|
|                          |                                            |                                      |
| R.C. by external switch. | R.C. by user's optocoupler control module. | R.C. by user's relay control module. |

## 5.Remote Sense

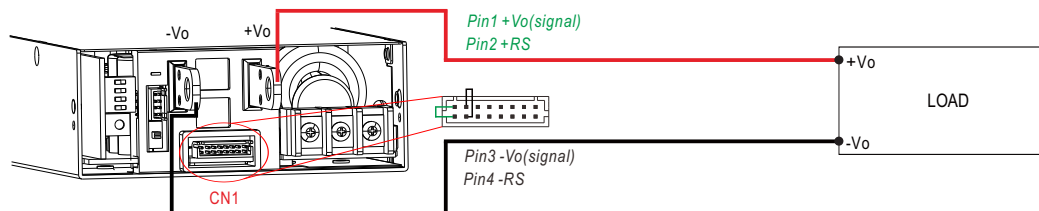
※ The Remote Sense compensates voltage drop on the load wiring up to 0.5Vdc



◎ The +RS signal should be connected to the positive terminal of the load whereas -RS signal to the negative terminal.

## 6.Local Sense

※ The +RS,-RS have to be connected to the +Vo(signal), -Vo(signal), respectively, as the following diagram, in order to get the correct output voltage if Remote Sense is not used.



## 7. Parallel Function

NSP-2400 has the built-in active current sharing function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below :

(1) The power supplies should be paralleled using short and large diameter wiring and then connected to the load.

(2) Difference of output voltages among parallel units should be less than 0.2Vdc.

(3) The total output current must not exceed the value determined by the following equation:

$$\text{Maximum output current at parallel operation} = (\text{Rated current per unit}) \times (\text{Number of unit}) \times 0.9$$

(4) Under parallel operation, the minimum output load should be greater than 5% of total output load; otherwise, it is likely that only one unit operates whereas other units may enter standby mode or their LED status indicators may not turn on.

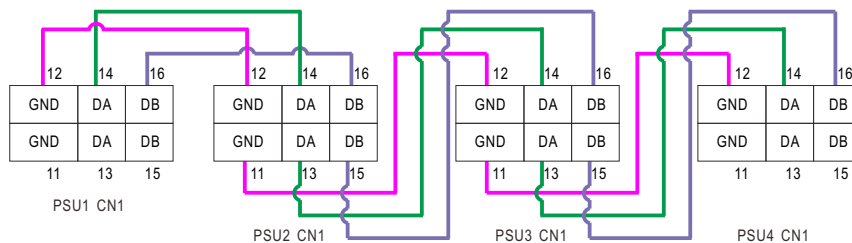
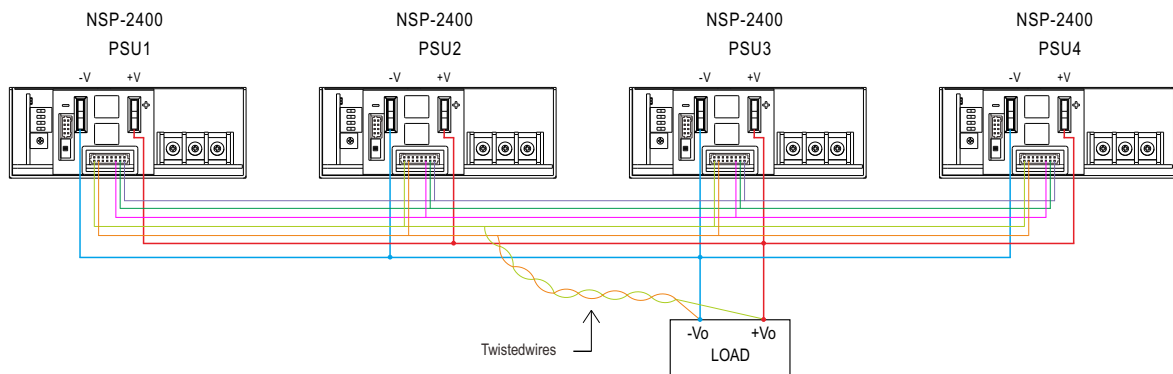
(5) When the total output current is less than 5% of the total rated current, or say  $(5\% \text{ of Rated current per unit}) \times (\text{Number of unit})$  the current shared among units may not be fully balanced.

(6) For parallel operation, please contact MEAN WELL technical support if the output voltage is below 1.5V.

(7) CN1/SW1 Function pin connection

| Parallel | PSU1 |          | PSU2 |          | PSU3 |          | PSU4 |          |
|----------|------|----------|------|----------|------|----------|------|----------|
|          | CN1  | SW1 Pin4 | CN1  | SW1 Pin4 | CN1  | SW1 Pin4 | CN1  | SW1 Pin4 |
| 1 unit   | X    | ON       | —    | —        | —    | —        | —    | —        |
| 2 unit   | ✓    | ON       | ✓    | ON       | —    | —        | —    | —        |
| 3 unit   | ✓    | ON       | ✓    | —        | ✓    | ON       | —    | —        |
| 4 unit   | ✓    | ON       | ✓    | —        | ✓    | —        | ✓    | ON       |

◎ ✓ is CN1/DIP SW1 connected to plug pin, X is CN1/DIP SW1 not connected to plug pin.



For longer CN1 cable lengths, twisted-pair wiring is recommended to minimize noise interference

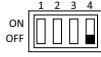
◎ DA,DB and GND are connected mutually in parallel.

◎ DA, DB signal and parallel control function

(1)Non-parallel operation

(a)set the DIP switch of position-4 as

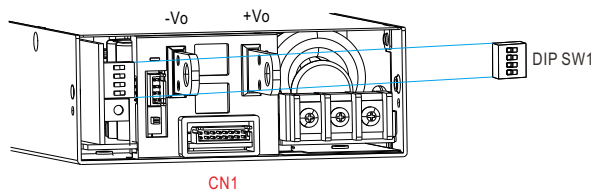
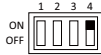
(b)By default, non-parallel operation.



(2)Default parallel operation

(a)set the DIP switch of position-4 as

(b)PSUs are configured in parallel operation.



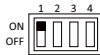
## 8. Overload Protection Mode

(1)Peak Power Mode

(a)Have the DIP switch position-1 as

(b)Limit current, shutdown after 5 or 2 seconds, recover after re-power on.

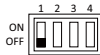
(c)Allow 1.33x or 2x peak power for 5 or 2 seconds.



(2)Current Limiting Mode

(a)Have the DIP switch position-1 as

(b)Limit current.



Note: With P.C function active, Peak Power Mode is disabled and the current limit defaults to the P.C setting

## 9. Support CANBus(Built-in) or MODBus Communication(By request)

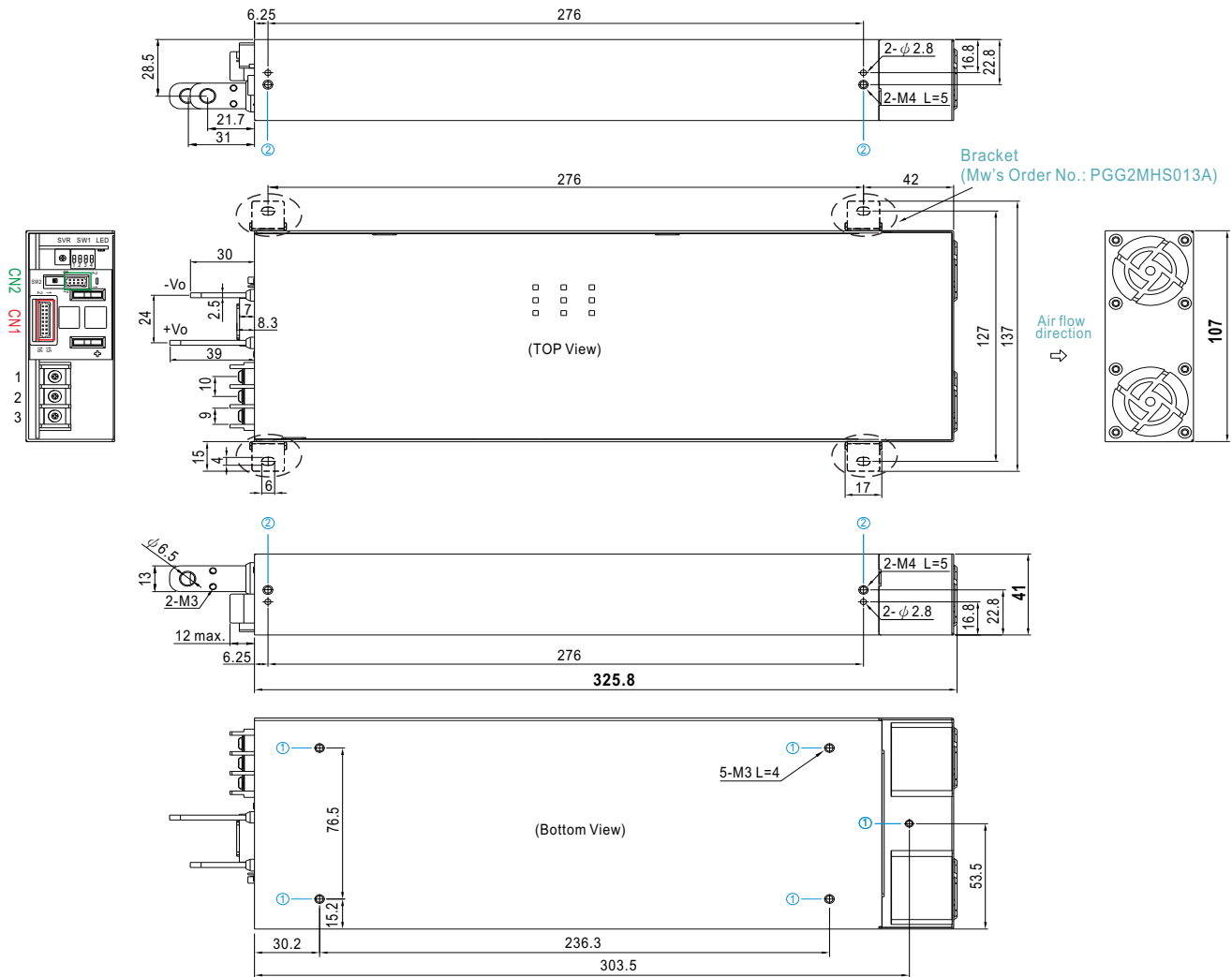
※ Communication provides function such as control, setting and monitoring , Parameters include output power, input voltage,etc.

For more details, please refer to: <http://www.meanwell.com/manual.html>

## Mechanical Specification

(Unit: mm, tolerance  $\pm 0.5\text{mm}$ )

Case No. 294A

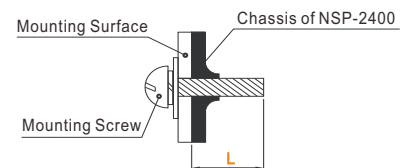


### ※ AC Input Terminal Pin No. Assignment

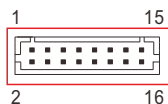
| Pin No. | Assignment | Diagram | Screw Thread | Max. mounting torque |
|---------|------------|---------|--------------|----------------------|
| 1       | FG $\perp$ |         | M3.5         | 8Kgf-cm              |
| 2       | AC/N       |         |              |                      |
| 3       | AC/L       |         |              |                      |

### ※ Mounting Instruction

| Hole No. | Recommended Screw Size | MAX. Penetration Depth L | Recommended mounting torque |
|----------|------------------------|--------------------------|-----------------------------|
| ①        | M3                     | 4mm                      | 6~8Kgf-cm                   |
| ②        | M4                     | 5mm                      | 7~10Kgf-cm                  |



### ※ Control Pin No. Assignment (CN1): HRS DF11-16DP-2DS or equivalent



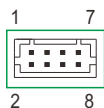
|                |                             |
|----------------|-----------------------------|
| Mating Housing | HRS DF11-16DS or equivalent |
| Terminal       | HRS DF11-16SC or equivalent |

| Pin No.  | Function     | Description                                                                                                                        |
|----------|--------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1        | +Vo (Signal) | Positive output voltage signal. It is for local sense; it cannot be connected directly to the load.                                |
| 2        | +RS          | Positive sensing for remote sense.                                                                                                 |
| 3        | -Vo (Signal) | Negative output voltage signal. It is for local sense and certain function reference; it cannot be connected directly to the load. |
| 4        | -RS          | Negative sensing for remote sense.                                                                                                 |
| 5        | PV           | Connection for output voltage programming. (Note.1)                                                                                |
| 6        | PC           | Connection for constant current level programming. (Note.1)                                                                        |
| 7,8,9,10 | A0,A1,A2,A3  | Interface address lines. (Note.2)                                                                                                  |
| 11,12    | GND          | These pins connect to the negative terminal (-Vo).                                                                                 |
| 13,14    | DA           | Differential digital signal for parallel control.                                                                                  |
| 15,16    | DB           | Differential digital signal for parallel control.                                                                                  |

Note1: Non-isolated signal, referenced to (GND).

Note2: Interface address setting, please refer to the user manual for more details.

※ Control Pin No. Assignment(CN2) : HRS DF11-08DP-2DS or equivalent



|                |                             |
|----------------|-----------------------------|
| Mating Housing | HRS DF11-08DS or equivalent |
| Terminal       | HRS DF11-08SC or equivalent |

| Pin No. | Function | Description                                                                                                                                                                                                          |
|---------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | R.C      | The unit can turn the output ON/OFF by electrical signal or dry contact between R.C and +5V-aux. (Note)<br>Short (4.5 ~ 5.5Vdc) : Power ON ; Open (-0.5 ~ 0.5Vdc) : Power OFF ; The maximum input voltage is 5.5Vdc. |
| 2       | +5V-AUX  | Auxiliary voltage output, 4.25~5.75Vdc, referenced to GND-aux.<br>The maximum load current is 0.2A. This output has the built-in "Oring diodes" and is not controlled by "R.C"                                       |
| 3       | DC-OK    | High (3.5 ~ 5.5Vdc) : When the Vout $\leq 77\% \pm 5\%$ .<br>Low (-0.5 ~ 0.5Vdc) : When Vout $\geq 80\% \pm 5\%$ .<br>The maximum sourcing current is 10mA and only for output. (Note)                               |
| 4,6     | GND-AUX  | Auxiliary voltage output GND.<br>The signal return is isolated from the output terminals (+Vo & -Vo).                                                                                                                |
| 5       | +12V-AUX | Auxiliary voltage output, 10.2~13.8Vdc, referenced to GND-aux.<br>The maximum load current is 0.8A. This output has the built-in "Oring diodes" and is not controlled by "R.C".                                      |
| 7       | D+       | For MODBus model: Data line used in MODBus interface. (Note)                                                                                                                                                         |
|         | CANH     | For CANBus model: Data line used in CANBus interface. (Note)                                                                                                                                                         |
| 8       | D-       | For MODBus model: Data line used in MODBus interface. (Note)                                                                                                                                                         |
|         | CANL     | For CANBus model: Data line used in CANBus interface. (Note)                                                                                                                                                         |

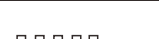
Note: Isolated signal, referenced to GND-AUX.

※ DIP Switch Position Assignment(DIP-SW1): Please refer to the User Manual.

| Pin No. | Assignment                                | Diagram                                                                           |
|---------|-------------------------------------------|-----------------------------------------------------------------------------------|
| 1       | Overload(OLP) type select                 |  |
| 2       | Output Current Programming (PC)           |                                                                                   |
| 3       | Output Voltage Programming (PV)           |                                                                                   |
| 4       | DA,DB Signal and paralld control function |                                                                                   |

DIP-SW PIN1:OL\_SD  
DIP-SW PIN2:PC  
DIP-SW PIN3:PV  
DIP-SW PIN4:PRL

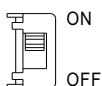
※ LED Status Indicators

| Description               | Output of alarm                                                                                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Normal operation          | Green : Steadily lit                                                                                         |
| Remote off                | Red : Steadily lit                                                                                           |
| Internal over-temperature | Orange : 1 Blink/Pause   |
| Overload / Short          | Red : 1 Blink/Pause      |
| Over voltage              | Red : 2 Blink/Pause      |
| Over temperature          | Red : 3 Blink/Pause      |
| Fan fail                  | Red : 4 Blink/Pause      |
| AC under voltage          | Red : 5 Blink/Pause      |
| Others (Note)             | Red : 6 Blink/Pause      |

Note: 1. Others include hardware fault etc

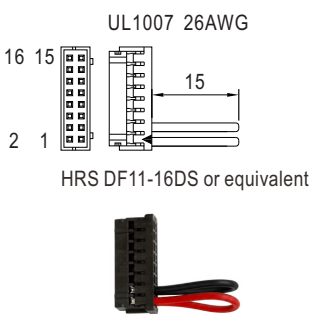
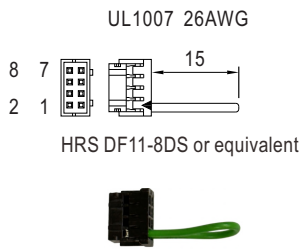
2. In Current Limiting mode, OLP operate in constant current limiting, with the indicator steadily lit green.

※ Control Pin Assignment SW2

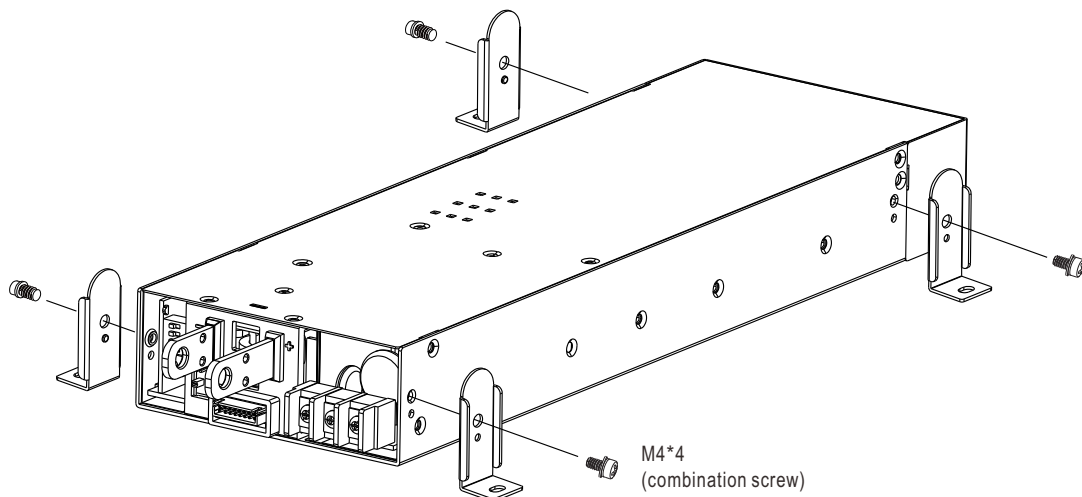


| Function | Description                                                   |
|----------|---------------------------------------------------------------|
| ON       | Termination resistors(120Ω). For CANBus/MODBus communication. |
| OFF      | No need to communicate.                                       |

### ■ Accessory List

| No. | Item                                                                                                                                                                                                                     | Quantity                                                 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 1   | <p>Remote Sense(CN1) mating wire along with NSP-2400<br/>(standard accessory)</p>                                                      | 1pcs/per model                                           |
| 2   | <p>Remote Control(CN2) mating wire along with NSP-2400<br/>(standard accessory)</p>                                                    | 1pcs/per model                                           |
| 3   | <p>Bracket<br/>Mw's Order No.: PGG2MHS013A<br/>(Optional accessories can be purchased separately)</p>                                  | 4pcs/per model<br>(Please refer to Installation Diagram) |
| 4   | <p>Terminal cover<br/>MW'S Order NO. :PEE4TBC-03-DG<br/>(Optional accessories can be purchased separately)</p>  <p>PEE4TBC-03-DG</p> | 1pcs/per model                                           |

### ■ Installation Diagram



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