



DC input side



User's Manual



Video



AC output side



IEC62368-1 BS EN/EN62368-1 (for 112/124 type GFCI only)  
Please refer to page3 for more details.

TPTC004 AS/NZS 62368.1

## Features

- True sine wave output (THD<3%)
- High surge power up to 2000W
- Temperature controlled cooling fan
- AC output voltage and frequency selectable by DIP S.W
- No load dissipation <1.5W at standby saving mode
- -25°C ~ +70°C wide operating temperature
- Power ON-OFF remote control
- Front panel indicator for operation status
- Protections :  
Input : Reverse polarity / DC low alarm / DC low shutdown / Over voltage  
Output : Short circuit / Overload / Over temp.

- Battery over discharge protection (low voltage disconnect)
- Suitable for lead-acid or li-ion batteries
- Remote controller

(IRC1, IRC2, IRC3 accessory sold separately, please refer to: <https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1> )

- Support RS-232 communication (Communication cable order No.: RJ11-RS232, sold separately)
- Carry handle accessory available (Order NO.: Carry handle, sold separately)
- Conformal coating
- 3 years warranty

## Applications

- Home and office appliance
- Power tools
- Portable equipment
- Vehicle
- Yacht
- Off-grid solar power system
- Wireless network
- Telecom or datacom system

## GTIN CODE

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

## Description

NTS-1200 is a 1200W highly reliable off-grid true sine wave DC-AC power inverter. Its key features include: digital design with MCU control, streamlined control circuitry that quickly responds to environmental changes and improves reliability, high quality fan with low acoustic noise, 2000W peak power, adjustable AC output voltage and frequency, -25~+70°C wide operating temperature range, complete protection features, and etc. Combined with batteries, the NTS-1200 is suitable for use in residential, commercial, marine, automobile, mine, construction site, and remote areas with no access to utility power, and the output can be used to power fans, TV, radio, phone charger, PC/laptop, lighting, induction stove, air conditioner, electromechanical tool, communication equipment, power distribution cabinet, outdoor camping equipment, marine AC power, factory equipment, and etc.

## Model Encoding

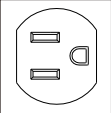
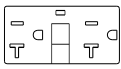
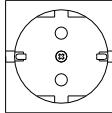
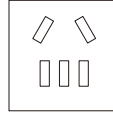
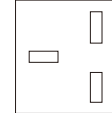
NTS - 1200 - 1 12 US

- AC output socket (Type US, EU, CN, AU, UK, UN, GFCI outlet)
- DC input voltage (12: 12Vdc, 24: 24Vdc, 48: 48Vdc)
- AC output voltage (1: 100/110/115/120Vac, 2: 200/220/230/240Vac)
- Rated wattage
- Series name

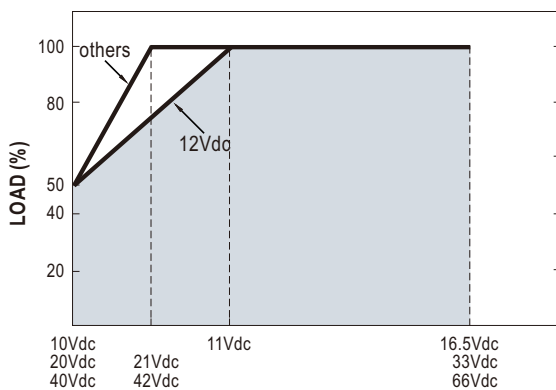
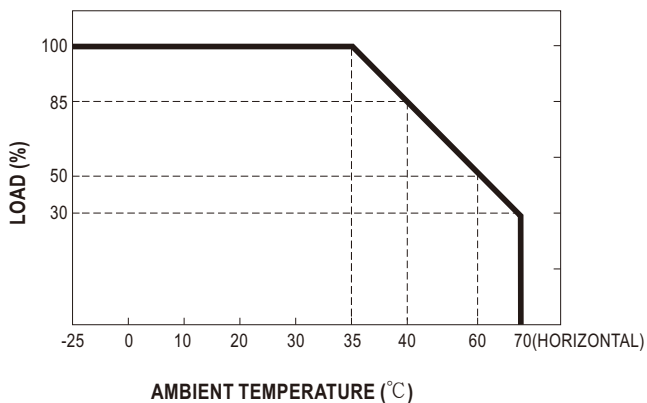
## SPECIFICATION

| MODEL NO.             |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NTS-1200-112□                                                                                                                                                              | NTS-1200-124□                                                                                                                 | NTS-1200-148□ | NTS-1200-212□                                                                   | NTS-1200-224□     | NTS-1200-248□ |         |
|-----------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------|-------------------|---------------|---------|
|                       |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | □ = US, GFCI, UN                                                                                                                                                           |                                                                                                                               |               | □ = EU, CN, AU, UK, UN                                                          |                   |               |         |
| AC OUTPUT             | RATED POWER(Continuous)    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1200W                                                                                                                                                                      |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | OVER RATED POWER(3 Min.)   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1380W                                                                                                                                                                      |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | PEAK POWER(10 Sec.)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1800W                                                                                                                                                                      |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | SURGE POWER(30 Cycles)     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2000W                                                                                                                                                                      |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | AC VOLTAGE                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Default setting set at 110VAC<br>100 / 110 / 115 / 120Vac selectable by DIP S.W                                                                                            |                                                                                                                               |               | Default setting set at 230VAC<br>200 / 220 / 230 / 240Vac selectable by DIP S.W |                   |               |         |
|                       | FREQUENCY                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Default setting set at 60±0.1Hz<br>50/60Hz selectable by DIP S.W                                                                                                           |                                                                                                                               |               | Default setting set at 50±0.1Hz<br>50/60Hz selectable by DIP S.W                |                   |               |         |
|                       | WAVEFORM                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Note.1 True sine wave (THD<3%)                                                                                                                                             |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | AC REGULATION              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ±3.0% at rated output voltage                                                                                                                                              |                                                                                                                               |               |                                                                                 |                   |               |         |
| FRONT PANEL LED       |                            | Please see page 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                            |                                                                                                                               |               |                                                                                 |                   |               |         |
| DC INPUT              | DC VOLTAGE                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12Vdc                                                                                                                                                                      | 24Vdc                                                                                                                         | 48Vdc         | 12Vdc                                                                           | 24Vdc             | 48Vdc         |         |
|                       | VOLTAGE RANGE (Typ.)       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10 ~ 16.5Vdc                                                                                                                                                               | 20 ~ 33Vdc                                                                                                                    | 40 ~ 66Vdc    | 10 ~ 16.5Vdc                                                                    | 20 ~ 33Vdc        | 40 ~ 66Vdc    |         |
|                       | DC CURRENT (Typ.)          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 120A                                                                                                                                                                       | 60A                                                                                                                           | 30A           | 120A                                                                            | 60A               | 30A           |         |
|                       | NO LOAD DISSIPATION (Typ.) | NON-SAVING MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15W                                                                                                                                                                        |                                                                                                                               |               | 25W                                                                             |                   |               |         |
|                       |                            | SAVING MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Default disable, ≤1.2W ~1.5W by models @ auto detect AC output load ≤10W will be changed to saving mode                                                                    |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.2W                                                                                                                                                                       | 1.4W                                                                                                                          | 1.5W          | 1.2W                                                                            | 1.4W              | 1.5W          |         |
|                       | OFF MODE CURRENT DRAW      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ≤1mA                                                                                                                                                                       |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | EFFICIENCY (Typ.)          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Note.1 89%                                                                                                                                                                 | 91%                                                                                                                           | 91.5%         | 90%                                                                             | 92%               | 93%           |         |
| BATTERY TYPES         |                            | Lead Acid or li-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                            |                                                                                                                               |               |                                                                                 |                   |               |         |
| PROTECTION            | DC INPUT                   | FUSE (INTERNAL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            | 40A*4                                                                                                                         | 40A*2         | 25A*2                                                                           | 40A*4             | 40A*2         | 25A*2   |
|                       |                            | LOW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ALARM                                                                                                                                                                      | 11±0.3Vdc                                                                                                                     | 22±0.5Vdc     | 44±1Vdc                                                                         | 11±0.3Vdc         | 22±0.5Vdc     | 44±1Vdc |
|                       |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SHUTDOWN                                                                                                                                                                   | 10±0.3Vdc                                                                                                                     | 20±0.5Vdc     | 40±1Vdc                                                                         | 10±0.3Vdc         | 20±0.5Vdc     | 40±1Vdc |
|                       |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RESTART                                                                                                                                                                    | 12.5±0.3Vdc                                                                                                                   | 25±0.5Vdc     | 50±1Vdc                                                                         | 12.5±0.3Vdc       | 25±0.5Vdc     | 50±1Vdc |
|                       |                            | HIGH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ALARM                                                                                                                                                                      | 15.5±0.3Vdc                                                                                                                   | 31±0.5Vdc     | 62±1Vdc                                                                         | 15.5±0.3Vdc       | 31±0.5Vdc     | 62±1Vdc |
|                       |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SHUTDOWN                                                                                                                                                                   | 16.5±0.3Vdc                                                                                                                   | 33±0.5Vdc     | 66±1Vdc                                                                         | 16.5±0.3Vdc       | 33±0.5Vdc     | 66±1Vdc |
|                       |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RESTART                                                                                                                                                                    | 15±0.3Vdc                                                                                                                     | 30±0.5Vdc     | 60±1Vdc                                                                         | 15±0.3Vdc         | 30±0.5Vdc     | 60±1Vdc |
|                       | BAT. POLARITY              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | By internal fuse open                                                                                                                                                      |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | AC OUTPUT                  | OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                            | Protection type : Shut down o/p voltage, re-power on to recover                                                               |               |                                                                                 |                   |               |         |
|                       |                            | OUTPUT SHORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                            | Protection type : Shut down o/p voltage, re-power on to recover                                                               |               |                                                                                 |                   |               |         |
|                       |                            | OVER LOAD (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                            | 105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.<br>Protection type : Shut down o/p voltage, re-power on to recover |               |                                                                                 |                   |               |         |
|                       |                            | CIRCUIT BREAKER (ONLY FOR "GFCI" AC SOCKET)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                            | 15A                                                                                                                           |               |                                                                                 | 10A               |               |         |
|                       |                            | GFCI PROTECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            | UL458 (Only for "GFCI" AC socket, by request)                                                                                 |               |                                                                                 | None              |               |         |
|                       | FUNCTION                   | REMOTE CONTROL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONNECTOR                                                                                                                                                                  | Power ON-OFF remote control by front panel dry contact connector(by RELAY), Open : Normal work ; Short : Remote off           |               |                                                                                 |                   |               |         |
|                       |                            | ACCESSORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Remote controller sold separately, Order No.: IRC1,IRC2,IRC3                                                                                                               |                                                                                                                               |               |                                                                                 |                   |               |         |
| ENVIRONMENT           | RS-232 COMMUNICATION       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RS-232 ~ RJ11 Type connector (Please refer to page 4 for more details)                                                                                                     |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | WORKING TEMP.              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -25 ~ +70℃ (Refer to "Derating curve")                                                                                                                                     |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | WORKING HUMIDITY           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20% ~ 90% RH non-condensing                                                                                                                                                |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | STORAGE TEMP., HUMIDITY    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -30 ~ +70℃ / -22 ~ +158°F, 10 ~ 95% RH non-condensing                                                                                                                      |                                                                                                                               |               |                                                                                 |                   |               |         |
| SAFETY & EMC (Note.4) | VIBRATION                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes                                                                                                               |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | SAFETY STANDARDS           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CB IEC62368-1,Dekra BS EN/EN62368-1,UL458, E13,EAC TP TC 004 approved; Design refer to AS/NZS 62368.1 (Please refer to next page"AC output socket" table for more details) |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | WITHSTAND VOLTAGE          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DC I/P - AC O/P:3.0KVac AC O/P - FG:1.5KVac                                                                                                                                |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | EMC EMISSION               | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Standard                                                                                                                                                                   |                                                                                                                               |               |                                                                                 | Test Level / Note |               |         |
|                       |                            | Radiated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FCC for 112,124,148 only(expect for Type-UN)                                                                                                                               |                                                                                                                               |               |                                                                                 | Class A           |               |         |
|                       |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BS EN/EN55032(CISPR32) for 212,224,248 only(expect for Type-UN)                                                                                                            |                                                                                                                               |               |                                                                                 | Class A           |               |         |
|                       |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Harmonic Current                                                                                                                                                           | BS EN/EN61000-3-2                                                                                                             |               |                                                                                 |                   | -----         |         |
|                       |                            | Voltage Flicker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BS EN/EN61000-3-3                                                                                                                                                          |                                                                                                                               |               |                                                                                 | -----             |               |         |
|                       | EMC IMMUNITY               | BS EN/EN55024, BS EN/EN55035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                            |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       |                            | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Standard                                                                                                                                                                   |                                                                                                                               |               |                                                                                 | Test Level / Note |               |         |
| ESD                   |                            | BS EN/EN61000-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                            |                                                                                                                               |               | Level 3, 8KV air ; Level 2, 4KV contact                                         |                   |               |         |
| Radiated              |                            | BS EN/EN61000-4-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                            |                                                                                                                               |               | Level 2, 3V/m                                                                   |                   |               |         |
| Magnetic Field        |                            | BS EN/EN61000-4-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                            |                                                                                                                               |               | Level 1, 1A/m                                                                   |                   |               |         |
| OTHERS                | MTBF                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 596.7K hrs min. Telcordia TR/SR-332 (Bellcore) ; 62.0K hrs min. MIL-HDBK-217F (25℃)                                                                                        |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | DIMENSION                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 333*184*70mm (L*W*H)                                                                                                                                                       |                                                                                                                               |               |                                                                                 |                   |               |         |
|                       | PACKING                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.3Kg; 2pcs/ 7.6Kg/ 1.25CUFT                                                                                                                                               |                                                                                                                               |               |                                                                                 |                   |               |         |
| NOTE                  |                            | 1.Efficiency, AC regulation and THD are tested by 900W load, linear load at 12.5Vdc/25Vdc/50Vdc input voltage.<br>2.All parameters not specified above are measured at rated load, 25℃ of ambient temperature and set to factory setting.<br>3.Internal pre-start circuit, the setup time is 8s.<br>4.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the 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>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                                                                                                            |                                                                                                                               |               |                                                                                 |                   |               |         |

## ■ AC Output Socket

| MODEL NO.   | NTS-1200-112 <input type="checkbox"/>                                             | NTS-1200-124 <input type="checkbox"/>                                             | NTS-1200-148 <input type="checkbox"/>                                             | NTS-1200-212 <input type="checkbox"/>                                              | NTS-1200-224 <input type="checkbox"/>                                               | NTS-1200-248 <input type="checkbox"/>                                               |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Socket type |  |  |  |   |    |  |
|             | TYPE-US                                                                           | TYPE-GFCI                                                                         | TYPE-UN                                                                           | TYPE-EU                                                                            | TYPE-CN                                                                             | TYPE-AU                                                                             |
|             | In Stock                                                                          | By request                                                                        | In Stock                                                                          | In Stock                                                                           | In Stock                                                                            | By request                                                                          |
| Country     | USA                                                                               | USA                                                                               | UNIVERSAL                                                                         | EUROPE                                                                             | CHINA                                                                               | U.K                                                                                 |
| Certificate |  |  | None                                                                              |  |  |  |

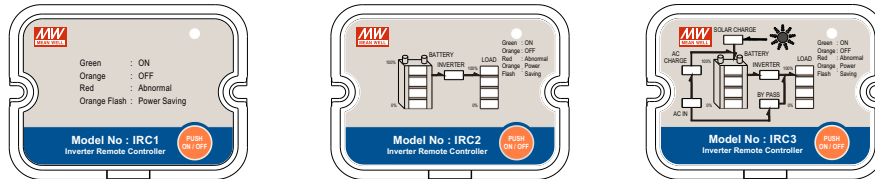
## ■ DERATING CURVE



### ■ IRC1/2/3 Remote Controller (Accessory sold separately)

- IRC1/IRC2/IRC3 is the monitoring and control unit.
- IRC1/IRC2/IRC3 can decode the RS-232 signals sent by the inverter series and display through digital meters.

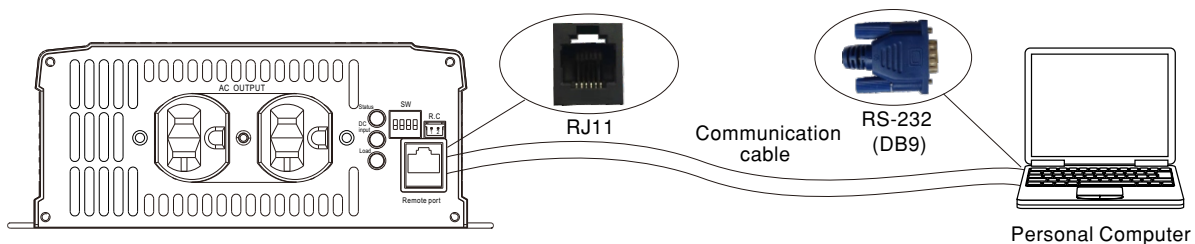
Note: Part of the control signals will not function properly due to different compliance of each model.



※ Please refer to for more detail: <https://www.meanwell.com/webapp/product/search.aspx?prod=IRC1>

### ■ Support RS-232 Communication

- The internal data of single NTS-1200 can read through RS-232.



※ Please refer to for more detail: <http://www.meanwell.com/manual.html>

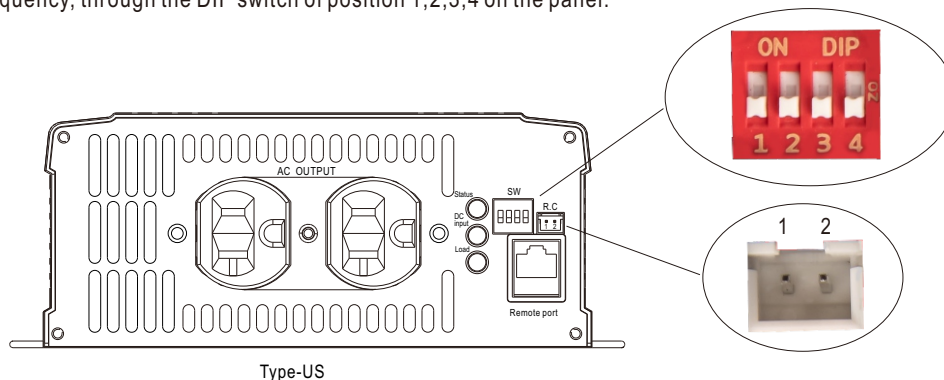
※ RJ11-RS232 Communication cable should be ordered separately, Order No.: RJ11-RS232

### ■ Remote ON-OFF Control (Built-in)

| Remote ON-OFF | AC Output Status   |
|---------------|--------------------|
| Open          | power inverter ON  |
| Short         | power inverter OFF |

### ■ AC Output Voltage, Frequency, Power saving mode selectable by DIP SW

Output voltage and frequency setting factory settings are either 110Vac/60Hz or 230Vac/50Hz, users are able to adjust the voltage and frequency, through the DIP switch of position 1,2,3,4 on the panel.



Type-US

AC Output Voltage, Frequency, Power saving mode selectable by DIP SW

| SW1 | SW2                    | SW3       | SW4                  |
|-----|------------------------|-----------|----------------------|
| OFF | OFF : 100Vac or 200Vac | ON : 50Hz | ON : Saving mode     |
| OFF | ON : 110Vac or 220Vac  |           |                      |
| ON  | OFF : 115Vac or 230Vac | OFF: 60Hz | OFF: Non-Saving mode |
| ON  | ON : 120Vac or 240Vac  |           |                      |

### ■ LED STATUS

Normal work:

|        | Green                                                                                                                                                                                           | Orange                                                                                                                                                                                        | Red                                                                                                                      |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Status |  System check<br> Inverter OK |  Remote off<br> Saving mode |  Abnormal Status<br>(See below table) |

|          | Green                                                                                                                                                                                                                                                                                      | Orange                                                                                                                                                                                                                                                                                   | Red                                                                                                                                                                                                                                                                                                                    |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC Input |  12.5~15.5Vdc<br> 25~31Vdc<br> 50~62Vdc |  11~12.5Vdc<br> 22~25Vdc<br> 44~50Vdc |  <11Vdc or >15.5Vdc<br> <22Vdc or >31Vdc<br> <44Vdc or >62Vdc |

|      | Green                                                                                       | Orange                                                                                        | Red                                                                                           |
|------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Load |  <40% load |  40~80% load |  >80% load |

Abnormal status :

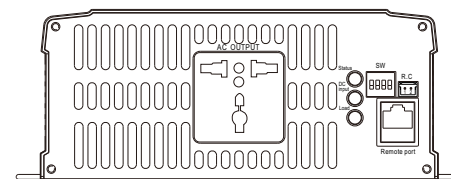
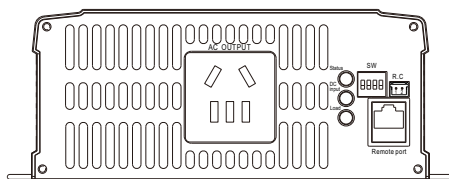
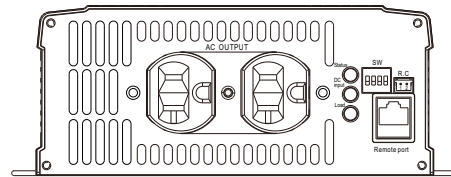
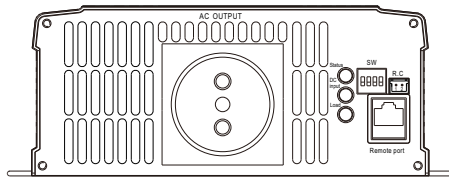
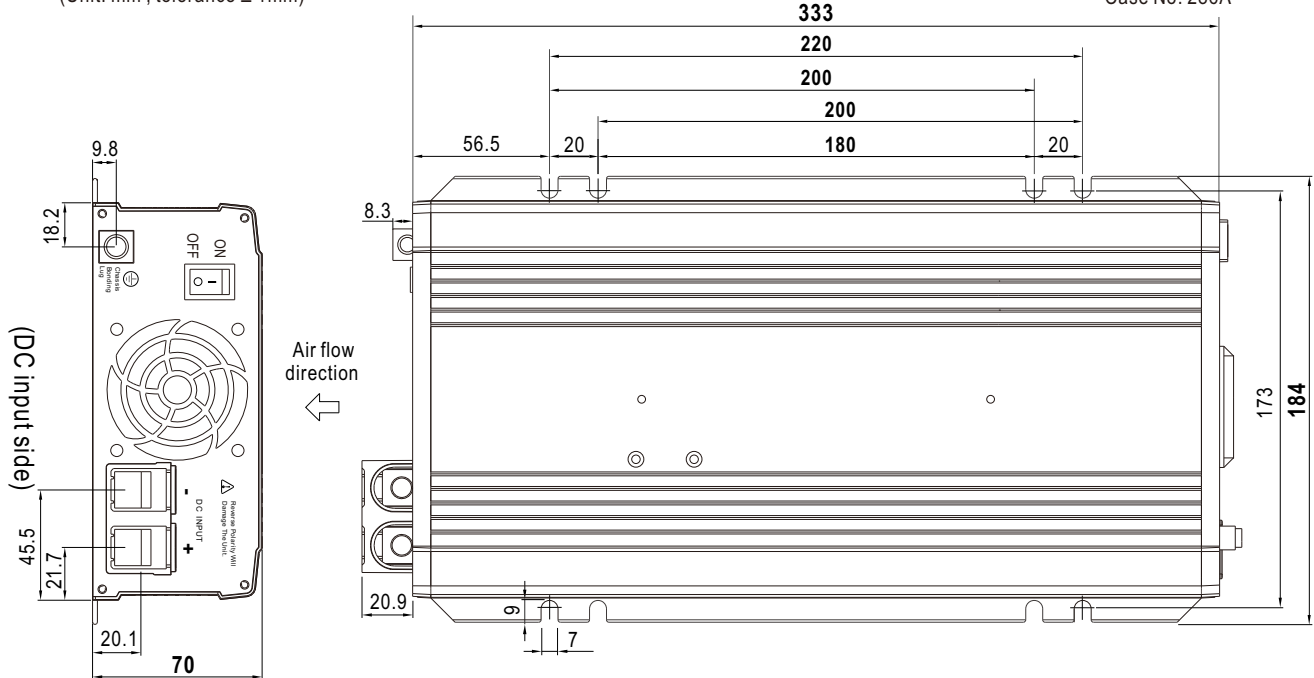
| LED Indicator                                                                                                                                                                                                                                                                          | Abnormal Indication                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Status <br>DC Input <br>Load  | Output overload or AC output short circuit |
| Status <br>DC Input <br>Load  | Abnormal DC voltage                        |
| Status <br>DC Input <br>Load  | Over temperature or Fan lock               |
| Status <br>DC Input <br>Load  | Inverter fail                              |

-  Light
-  Light off
-  Flash

# MECHANICAL SPECIFICATION

(Unit: mm , tolerance  $\pm 1$ mm)

Case No. 286A



(AC output side)

R.C Connector : JST B-XH or equivalent

| Remote Control            | Mating Housing           | Terminal                      |
|---------------------------|--------------------------|-------------------------------|
| Pin 1,2 Open: Normal work | JST XHP<br>or equivalent | JST SXH-001T<br>or equivalent |
| Pin 1,2 Short: Remote off |                          |                               |

Remote port connector (RJ11)



Remote port

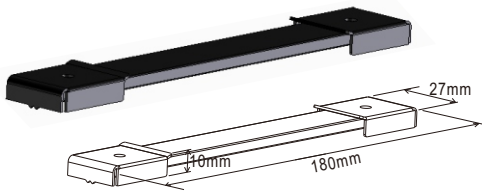
| Assignment  | Rx | GND | Tx |
|-------------|----|-----|----|
| Remote port | 2  | 3   | 4  |
| DB9         | 3  | 5   | 2  |

### ■ Accessory List

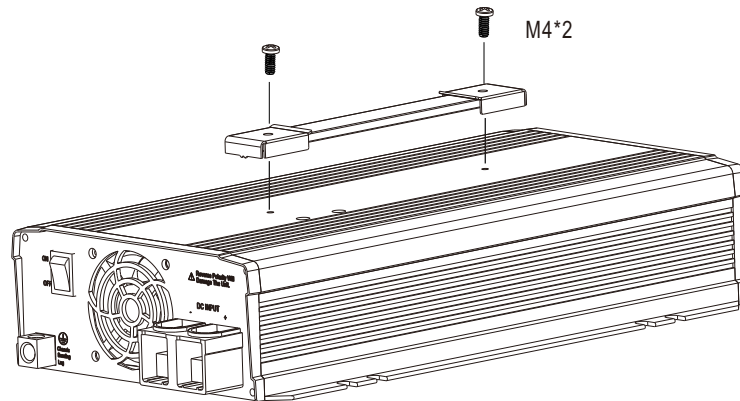
※ Communication cable (Optional accessory, Power inverter and Communication cable should ordered seperately)

| MW's Order No. | Item                                                                              | Quantity |
|----------------|-----------------------------------------------------------------------------------|----------|
| RJ11-RS232     |  | 1        |

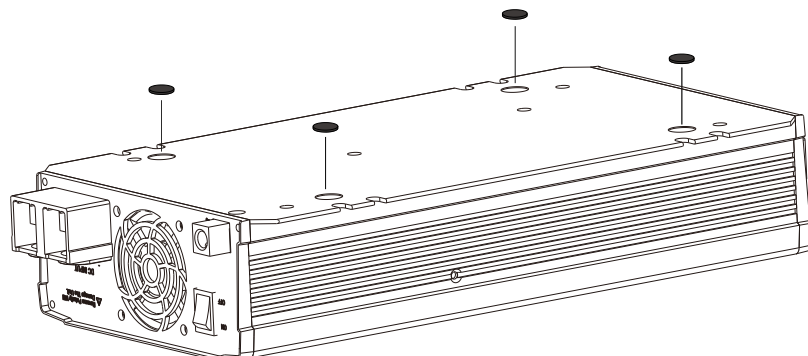
※ Carry handle (Optional accessory, Power inverter and Pull handle should ordered seperately)

| MW's Order No. | Item |                                                                                                 | Quantity |
|----------------|------|-------------------------------------------------------------------------------------------------|----------|
| Carry Handle   | ①    | Handle<br>    | 1        |
|                | ②    | Foot pad<br> | 4        |
|                | ③    | Screw<br>   | 2        |

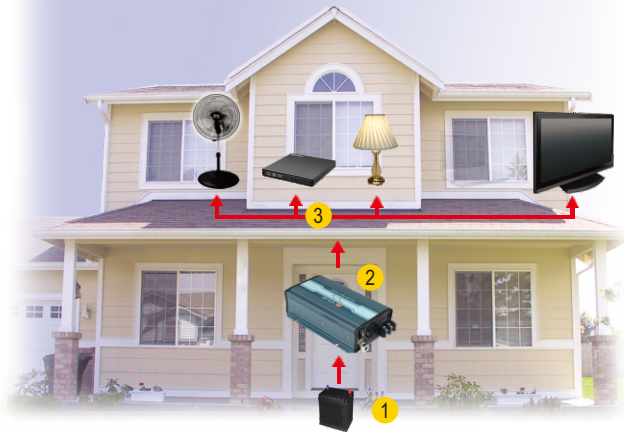
① Handle



② Foot pad



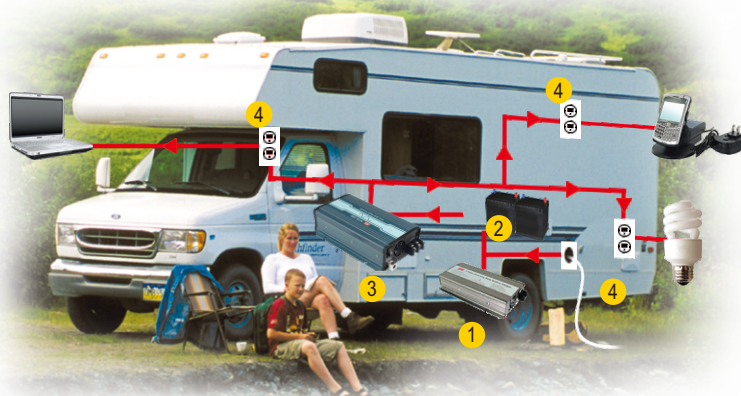
## TYPICAL APPLICATION



- 1 Battery Bank
- 2 Off-Grid DC/AC Solar Inverter (NTS series)
- 3 AC Outlet



- 1 Utility Input (Shore)
- 2 AC/DC Battery Charger (PB/NPB/NPP series)
- 3 Battery Bank
- 4 Off-Grid DC/AC Power Inverter (NTS series)
- 5 AC Outlet



- 1 AC/DC Battery Charger (PB/NPB/NPP series)
- 2 Battery Bank
- 3 Off-Grid DC/AC Inverter (NTS series)
- 4 AC Outlet

## INSTALLATION MANUAL

Please refer to : <http://www.meanwell.com/manual.html>