



#### Front





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3200W AC/DC High Reliable Industrial Enclosed Type Power Supply











#### Features

- 90~264Vac input with PFC
- Output voltage 50~125% programmable
- Built-in CANBus protocol
- -20~+70°C wide range operation temperature
- · Built-in constant current limiting circuit
- High efficiency up to 94.5%
- · Built-in remote ON-OFF control / Remote Sense / 12Vaux power / DC OK signal / OTP alarm signal
- · Built-in intelligent fan speed control
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Design refer to SEMI F47 at 200Vac
- 5 years warranty

# Applications

- · Factory control or automation apparatus
- Test and measurement instrument
- · Laser related machine
- · Aging facility
- · Digital broadcasting
- · Constant current source

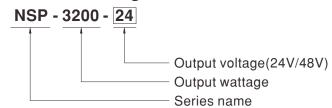
#### GTIN CODE

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

### Description

NSP-3200 is a 3.2KW single output enclosed type AC/DC power supply with 1U low profile and a high power density up to 37W/inch3. This series operates for 90~264Vac input voltage and offers the models with the DC output mostly demanded by the industry. Each model is cooled by the thermostatically controlled fan. Moreover, NSP-3200 provides vast design flexibility by equipping various built-in functions such as output programming, remote ON-OFF control, auxiliary power, and etc.

### ■ Model Encoding





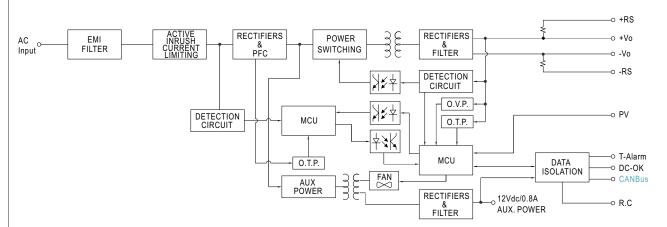
SPECIFICAT	ΓΙΟΝ	NSP-3200-24	NSP-	3200-48		
OUTPUT						
DC VOLTAGE		24V	48V			
RATED CURRENT		133A	67A			
CURRENT RANGE		0 ~ 133A	0 ~ 67.4	P		
RATED POWER		3192W	3216W	1		
RIPPLE & NOISE (I	max.) Note.2,3	300mVp-p	480mV	/p-p		
VOLTAGE ADJ. RA		23.5 ~ 30V	47.5 ~			
VOLTAGE TOLERA	NCE Note.4	±1.0%	±1.0%			
LINE REGULATION	ı	±0.5%	±0.5%	6		
LOAD REGULATIO	N	±0.5%	±0.5%	6		
SETUP, RISE TIME		1500ms, 60ms/230Vac at full load	'			
HOLD UP TIME (Ty	p.)	16ms / 230Vac at 70% load 8ms /	230Vac at full load			
INPUT	· ·					
VOLTAGE RANGE	Note.5	90 ~ 264Vac 127 ~ 400Vdc				
FREQUENCY RAN	GE	47 ~ 63Hz				
POWER FACTOR (		0.97/230Vac at full load				
EFFICIENCY (Typ.)	• • •	93.5%	94.5%			
AC CURRENT (Typ		17A/230Vac	5,007,0			
INRUSH CURRENT	•	COLD START 55A/230Vac				
LEAKAGE CURRE	,	<2mA / 230Vac				
PROTECTION		2.11.17.200140				
		105 ~ 115% rated output power				
OVERLOAD			ing shut down O/P voltage 5 sec	after O/P voltage is down low, re-power on to recover		
		31.5 ~ 37.5V	63 ~ 75			
OVER VOLTAGE		Protection type : Shut down o/p voltage		) v		
OVED TEMPEDATI	IDE		· · · · · · · · · · · · · · · · · · ·			
OVER TEMPERATU	JKE	Shut down o/p voltage, recovers autom	latically after temperature goes do	WII		
FUNCTION		Adjustment of output voltage is allow	able to EO . 12EV of naminal autr	aut voltage		
OUTPUT VOLTAGE	PROGRAMMABLE(PV)	Adjustment of output voltage is allow Please refer to the Function Manual i		out voltage		
REMOTE CONTRO	ı		0.0	. Please refer to the Function Manual in following pages		
REMOTE SENSE	<u>-</u>	Compensate voltage drop on the load wiring up to 0.5Vdc. Please refer to the Function Manual in following pages				
AUXILIARY POWE	R	12Vaux @ 0.8A, tolerance ±10%				
ALARM SIGNAL		Isolated TTL signal output for T-Alarm and DC-OK. Please refer to the Function Manual in following pages				
CANBus INTERFA	CF	Communication provides functions such as control, setting and monitoring				
0,1112401111211171	Note.8	Built-in intelligent fan speed control de		-		
FAN SPEED	10% load with Ta=25°C	38dB	38dB			
CONTROL(Typ.)	70% load with Ta=25°C	44dB	38dB			
ENVIRONMENT						
WORKING TEMP.		-20 ~ +70°C (Refer to "Derating Curve	")			
WORKING HUMIDI	TY	20 ~ 90% RH non-condensing	,			
STORAGE TEMP.,		-40 ~ +85°C, 10 ~ 95% RH non-conder	nsing			
TEMP. COEFFICIE		±0.03%/°C (0~50°C)	- 0			
VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min.	each along X. Y. Z axes			
SAFETY & EMC (No	ote 8)	To Good E, 20 Tollinia, royolo, commit dash along X, 1, 2 axes				
	•	UL62368-1, CSA C22.2 No. 62368-1, TUV BS EN/EN62368-1, BIS IS 13252(Part 1):2010/ IEC 60950-1 : 2005,				
SAFETY STANDAR		EAC TP TC 004 approved				
WITHSTAND VOI TAGE		EAC TP TC 004 approved		252(Part 1):2010/ IEC 60950-1 : 2005,		
WITHSTAND VOLT		I/P-O/P:3KVac I/P-FG:2KVac O/P	·	252(Part 1):2010/ IEC 60950-1 : 2005,		
ISOLATION RESIS	AGE		-FG:1.5KVac	252(Part 1):2010/ IEC 60950-1 : 2005,		
	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P	-FG:1.5KVac	Test Level / Note		
	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms /	-FG:1.5KVac 500Vdc / 25°C / 70% RH			
	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter	-FG:1.5KVac 500Vdc / 25°C / 70% RH Standard	Test Level / Note		
ISOLATION RESIS	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted	FG:1.5KVac 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32)	Test Level / Note Class B		
ISOLATION RESIS	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated	FG:1.5KVac 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN55032 (CISPR32)	Test Level / Note Class B Class A		
ISOLATION RESIS	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current	FG:1.5KVac 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3	Test Level / Note Class B Class A Class A		
ISOLATION RESIS	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker	FG:1.5KVac 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3	Test Level / Note Class B Class A Class A		
ISOLATION RESIS	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN55032 (CISPR32)  BS EN/EN61000-3-2  BS EN/EN61000-3-3  et al. (design refer to SEMI F47 at 200)	Test Level / Note Class B Class A Class A		
ISOLATION RESIS	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN55032 (CISPR32)  BS EN/EN61000-3-2  BS EN/EN61000-3-3  2, design refer to SEMI F47 at 200V  Standard	Test Level / Note Class B Class A Class A /ac Test Level / Note		
EMC EMISSION	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD	-FG:1.5KVac 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2, design refer to SEMI F47 at 200V Standard BS EN/EN61000-4-2	Test Level / Note Class B Class A Class A /ac Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact		
ISOLATION RESIS	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN61000-3-2  BS EN/EN61000-3-3  P, design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3	Test Level / Note Class B Class A Class A /ac Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3		
EMC EMISSION	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated EFT / Burst	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN55032 (CISPR32)  BS EN/EN61000-3-2  BS EN/EN61000-3-3  P., design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4	Test Level / Note Class B Class A Class A /ac Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3		
EMC EMISSION	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated EFT / Burst Surge	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN55032 (CISPR32)  BS EN/EN61000-3-2  BS EN/EN61000-3-3  P, design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5	Test Level / Note Class B Class A Class A /ac  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth		
EMC EMISSION	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN51000-3-2  BS EN/EN61000-3-3  P., design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8	Test Level / Note Class B Class A Class A /ac  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,		
EMC EMISSION	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated EFT / Burst Surge Conducted	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32) BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2, design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level / Note Class B Class A Class A /ac  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth Level 3 Level 3 Level 4		
EMC EMISSION	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN51000-3-2  BS EN/EN61000-3-3  P., design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8	Test Level / Note Class B Class A Class A /ac  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,		
EMC EMISSION  EMC IMMUNITY	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated EFT/ Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN65032 (CISPR32)  BS EN/EN61000-3-2  BS EN/EN61000-3-3  P., design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-5  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	Test Level / Note Class B Class A Class A /ac  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,		
EMC EMISSION  EMC IMMUNITY  OTHERS	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions  637.4K hrs min. Telcordia SR-332 (i) 325.8*107*41mm (L*W*H)	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN65032 (CISPR32)  BS EN/EN61000-3-2  BS EN/EN61000-3-3  P., design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-5  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	Test Level / Note Class B Class A Class A /ac  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
EMC EMISSION  EMC IMMUNITY  OTHERS MTBF	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN65032 (CISPR32)  BS EN/EN61000-3-2  BS EN/EN61000-3-3  P., design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-5  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	Test Level / Note Class B Class A Class A /ac  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
EMC EMISSION  EMC IMMUNITY  OTHERS MTBF DIMENSION	AGE	I/P-O/P:3KVac I/P-FG:2KVac O/P I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BS EN/EN61000-6-2 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions  637.4K hrs min. Telcordia SR-332 (i) 325.8*107*41mm (L*W*H)	FG:1.5KVac 500Vdc / 25°C / 70% RH  Standard  BS EN/EN55032 (CISPR32)  BS EN/EN65032 (CISPR32)  BS EN/EN61000-3-2  BS EN/EN61000-3-3  P., design refer to SEMI F47 at 200V  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-5  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	Test Level / Note Class B Class A Class A /ac  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		

- 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.
  2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
  3. Under variable load application or parallel operation ripple of the output voltage may be higher than the SPEC at light load condition. It will go back to normal ripple level once the output load is more than 5%.
  4. Tolerance: includes set up tolerance, line regulation and load regulation.
  5. Derating may be needed under low input voltages. Please check the derating curve for more details.
  6. The efficiency is measured at 75% load.
  7. If use PV signal to adjust Vo, under certain operating conditions, ripple noise of Vo might slightly go over rating defined in this specification.
  8. FAN noise test set up according to ISO-7779.
  9. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 600mm\*900mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
  (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
  10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

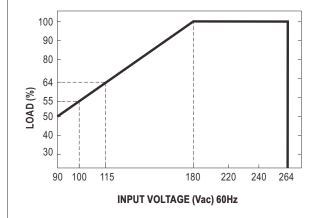
  \*\*\*Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



PFC fosc: 110KHz PWM fosc: 90KHz



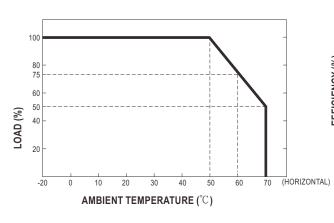
#### **■ STATIC CHARACTERISTICS**



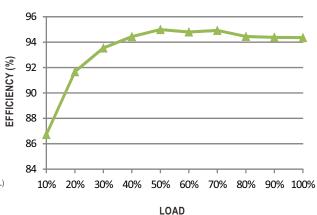
#### **■ DERATING LOADs vs INPUT VOLTAGE**

INPUT MODEL	24V	48V
180~264Vac	3192W	3216W
100~204 Vac	133A	67A
90Vac	1596W	1608W
90 vac	66.5A	33.5A

#### ■ DERATING CURVE



#### **■** EFFICIENCY vs LOAD (48V MODEL)



The curve above is measured at 230Vac.

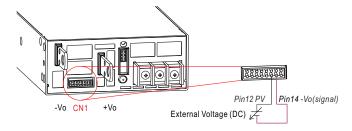


#### **■ FUNCTION MANUAL**

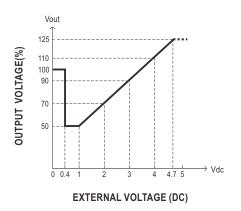
#### 1. Output Voltage Programming (P.V)

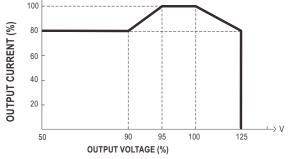
※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed to 50~125% of the nominal voltage by applying External Voltage.

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© For Remote Sense / Local Sense, please refer to "Voltage Drop Compensation" section.

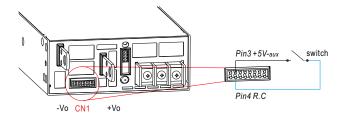




- The rated current should change with the Output Voltage Programming accordingly.
- O For Remote Sense / Local Sense, please refer to "Voltage Drop Compensation" section.

#### 2. Remote Control

X The power supply can be turned ON/OFF individually or along with other units by using the "Remote Control" function.

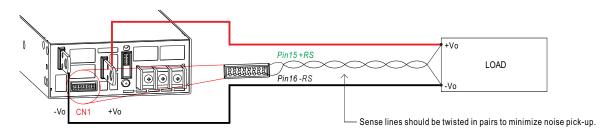


PSU Vo Status	Between +5V-aux(Pin 3) and R.C(Pin 4)	
Power ON	Switch Short	
Power OFF	Switch Open	

#### 3. Voltage Drop Compensation

#### 3.1 Remote Sense

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

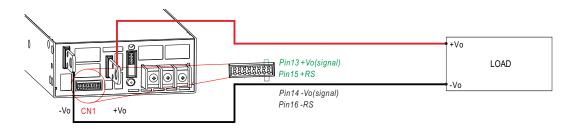


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The +RS signal should be connected to the positive terminal of the load whereas -RS signal to the negative terminal.

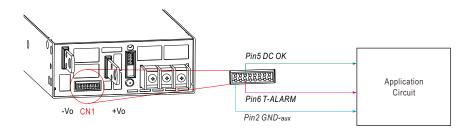
#### 3.2 Local Sense

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



#### 4. Alarm Signal Output

※ There are 2 alarm signals, DC OK and T-ALARM, in TTL signal form, on CN1. These signals are isolated from output. The maximum sink current is 10mA.



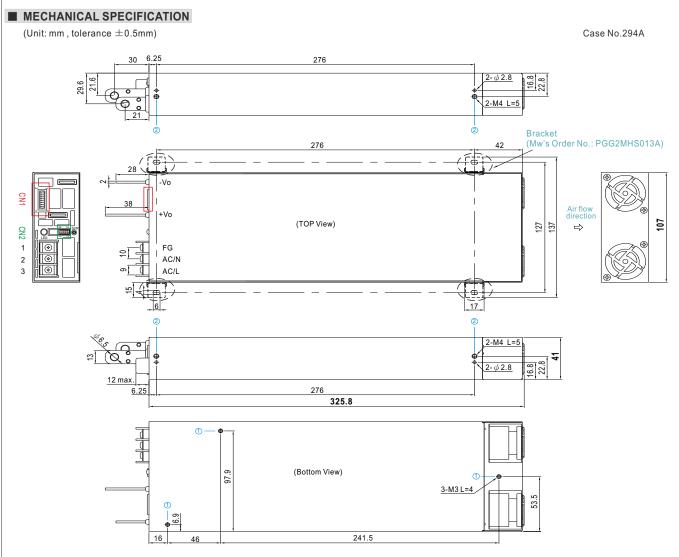
DC OK Fail signal	Power Supply Status
"High" > 3.5~5.5V	Vout ≦ 77%±5%
"Low" < -0.5~0.5V	Vout ≧ 80%±5%

T-ALARM	Power Supply Status
"High" > 3.5~5.5V	OFF(OTP or Fan Fail)
"Low" < -0.5~0.5V	ON(Normal Work)

#### **5.CANBus Communication Interface**

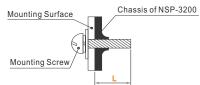
NSP-3200 supports CAN 2.0B with maximum 250KHz bus speed, allowing information reading, status monitoring, output trimming, etc. For details, please refer to the User's Manual.





#### ※ Mounting Instruction

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



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



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

_	10		
Pin No.	Function	Description	
1	+12V-aux	Auxiliary voltage output, 10.6~13.2Vdc, referenced to GND-aux (pin2). The maximum load current is 0.8A. This output has the built-in "Oring diodes" and is not controlled by "Remote ON-OFF".	
2	GND-aux	Auxiliary voltage output GND. The signal return is isolated from the output terminals (+Vo & -Vo).	
3	+5V-aux	This pin is use for remote ON-OFF usage only.	
4	R.C	The unit can turn the output ON/OFF by electrical signal or dry contact between $Remote\ ON/OFF\ $ and $+5V-aux$ . (Note.2) Short $(4.5\sim5.5\text{Vdc})$ : Power ON; Open $(-0.5\sim0.5\text{Vdc})$ : Power OFF; The maximum input voltage is $5.5\text{Vdc}$ .	
5	DC-OK	High (3.5 ~ 5.5Vdc): When the Vout ≤77% $\pm$ 5%. Low (-0.5 ~ 0.5Vdc): When Vout ≥80% $\pm$ 5%. The maximum sourcing current is 10mA and only for output. (Note.2)	
6	T-ALARM	digh (3.5 ~ 5.5Vdc): When the internal temperature exceeds the limit of temperature alarm, or when Fan fails.  ow (-0.5 ~ 0.5Vdc): When the internal temperature is normal, and when Fan works normally.  The maximum sourcing current is 10mA and only for output(Note.2)	
7,8,9	A0,A1,A2	CANBus interface address lines. (Note.1)	
10,11	NC	Retain for future use.	
12	PV	Connection for output voltage programming. (Note.1)	
13	+Vo(Signal)	Positive output voltage signal. It is for local sense; it cannot be connected directly to the load.	
14	-Vo(Signal)	Negative output voltage signal. It is for local sense and certain function reference; it cannot be connected directly to the load.	
15	+RS	Positive sensing for remote sense.	
16	-RS	Negative sensing for remote sense.	

Note1: Non-isolated signal, referenced to [-Vo(signal)].

Note2: Isolated signal, referenced to [GND-aux].



# 3200W AC/DC High Reliable Industrial Enclosed Type Power Supply NSP-3200 series

#### ※ LED Status Indicators

LED	Description	
Green The power supply functions normally.		
Red	Red The LED will present a constant red light when the abnormal status (OTP, OLP, fan fail) arises.	
Red (Flashing)	The LED will flash with the red light when the internal temperature reaches 60°C; under this condition, the unit still operates normally without entering OTP. (In the meantime, an alarm signal will be sent out through the CANBus interface.)	

### $\ensuremath{\mathbb{X}}$ AC Input Terminal Pin No. Assignment

Pin No.	Assignment	Diagram	Screw thread	Maximum mounting torque
1	FG ±	. 1 2 3 .		
2	AC/N		M3.5	8Kgf-cm
3	AC/L			

### $\frak{\%}$ Control Pin No. Assignment(CN2) : HRS DF11-8DP-2DS or equivalent



Mating Housing	HRS DF11-8DS or equivalent
Terminal	HRS DF11-**SC or equivalent

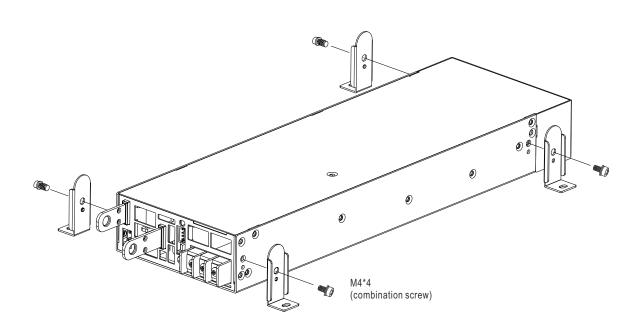
Pin No.	Function	Description
1,2,3,4	NC	For standard model: Retain for future use.
5,6	-Vo (Signal)	Negative output voltage signal. It is for local sense and certain function reference; it cannot be connected directly to the load.
7	CANH	For CANBus model: Data line used in CANBus interface. (Note)
8	CANL	For CANBus model: Data line used in CANBus interface. (Note)

Note: Isolated signal, referenced to [GND-aux].

# ■ Accessory List

No.	Item		Quantity
1	Control function interface(CN1) mating wire along with NSP-3200 (standard accessory)	15 16 15 UL1007 26AWG 2 1 HRS DF11-16DS or equivalent	1pcs/per model
2	Bracket  Mw's Order No.: PGG2MHS013A  (By request accesory, should ordered seperately)		4pcs/per model (Please refer to Installation Diagram)

# ■ Installation Diagram



3200W AC/DC High Reliable Industrial Enclosed Type Power Supply

### ■ Installation Manual

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



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