



Front



















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

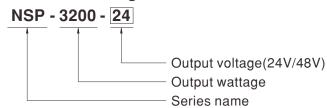
GTIN CODE

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	TION	NSP-3200-24	NSP-320	0-48	
DUTPUT					
DC VOLTAGE		24V	48V		
RATED CURRENT		133A	67A		
URRENT RANGE		0 ~ 133A	0 ~ 67A		
RATED POWER		3192W	3216W		
		300mVp-p	480mVp-p		
OLTAGE ADJ. RA		23.5 ~ 30V 47.5 ~ 58.8V			
OLTAGE TOLERA		±1.0%	±1.0%		
INE REGULATION		±0.5%			
OAD REGULATIO					
ETUP. RISE TIME	14	±0.5% ±0.5% 1500ms, 60ms/230Vac at full load			
IOLD UP TIME (Ty	n)	16ms / 230Vac at 70% load 8ms / 230Vac at full load			
NPUT	γ.,	Toms / 250 vac at 70 /6 load oms	230 vac at full load		
OLTAGE RANGE	Note.4	90 ~ 264Vac 127 ~ 400Vdc			
REQUENCY RANG		47 ~ 63Hz			
OWER FACTOR (1	** /	0.97/230Vac at full load	04.5%		
FFICIENCY (Typ.)		93.5%	94.5%		
C CURRENT (Typ.	,	17A/230Vac			
IRUSH CURRENT	, , ,	COLD START 55A/230Vac			
EAKAGE CURREN	N I	<2mA / 230Vac			
ROTECTION					
VERLOAD		105 ~ 115% rated output power			
VERLOAD		71	<u> </u>	O/P voltage is down low, re-power on to recover	
VER VOLTAGE		31.5 ~ 37.5V	63 ~ 75V		
VER VOLIAGE		Protection type : Shut down o/p voltag	e, re-power on to recover		
VER TEMPERATU	JRE	Shut down o/p voltage, recovers autor	natically after temperature goes down		
UNCTION					
UITPUT VOLTAGE	PROGRAMMABLE(PV)		vable to 50 ~ 125% of nominal output vo	oltage	
		Please refer to the Function Manual	0.0		
EMOTE CONTROI	L	By electrical signal or dry contact Power ON:short Power OFF:open. Please refer to the Function Manual in following pages			
REMOTE SENSE		Compensate voltage drop on the load wiring up to 0.5Vdc. Please refer to the Function Manual in following pages			
AUXILIARY POWER		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 INTERFACE		Communication provides functions such as control, setting and monitoring			
AN SPEED	Note.7	Built-in intelligent fan speed control de	etect by PSU'S internal temperature		
ONTROL(Typ.)	10% load with Ta=25°C		38dB		
(), /	70% load with Ta=25°C	44dB	38dB		
NVIRONMENT					
ORKING TEMP.		-20 ~ +70°C (Refer to "Derating Curve	<u>>")</u>		
ORKING HUMIDIT		20 ~ 90% RH non-condensing			
TORAGE TEMP., I	HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing			
EMP. COEFFICIEN	NT	±0.03%/°C (0~50°C)			
IBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
AFETY & EMC (No	te.8)				
		UL62368-1, CSA C22.2 No. 62368-1, TUV BS EN/EN62368-1, BIS IS 13252(Part 1):2010/ IEC 60950-1 : 2005,			
•	DS		TUV BS EN/EN02308-1, BIS IS 13252(P	art 1):2010/ IEC 60950-1 : 2005,	
AFETY STANDAR		EAC TP TC 004 approved		art 1):2010/ IEC 60950-1 : 2005,	
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F	P-FG:1.5KVac	art 1):2010/ IEC 60950-1 : 2005,	
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH		
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac	P-FG:1.5KVac	art 1):2010/ IEC 60950-1 : 2005, Test Level / Note	
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH		
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the conducted Radiated	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard	Test Level / Note	
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the conducted I/P-O/P of the	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32)	Test Level / Note Class B	
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the conducted Radiated	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN55032 (CISPR32)	Test Level / Note Class B Class A	
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the conducted o	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2	Test Level / Note Class B Class A Class A	
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the conducted o	P-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	
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the conducted o	P-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 200Vac	Test Level / Note Class B Class A Class A Test Level / Note	
AFETY STANDAR	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the conducted o	P-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 200Vac Standard	Test Level / Note Class B Class A Class A Test Level / Note	
AFETY STANDAR //THSTAND VOLTA SOLATION RESIST MC EMISSION	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the conducted o	P-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 200Vac Standard BS EN/EN61000-4-2	Test Level / Note Class B Class A Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contace	
AFETY STANDAR //THSTAND VOLTA SOLATION RESIST MC EMISSION	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the conducted o	P-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 200Vac Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3	Test Level / Note Class B Class A Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contac Level 3	
AFETY STANDAR WITHSTAND VOLTA SOLATION RESIST	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F 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- Parameter ESD Radiated EFT / Burst	P-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 200Vac 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 Test Level / Note Level 3, 8KV air; Level 2, 4KV contac Level 3 Level 3	
SAFETY STANDAR WITHSTAND VOLTA SOLATION RESIST	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F 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- Parameter ESD Radiated EFT / Burst Surge	P-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 200Vac 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 Test Level / Note Level 3, 8KV air; Level 2, 4KV contac Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth	
SAFETY STANDAR WITHSTAND VOLTA SOLATION RESIST	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the condition o	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2, design refer to SEMI F47 at 200Vac 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 Test Level / Note Level 3, 8KV air; Level 2, 4KV contac Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth Level 3 Level 4	
SAFETY STANDAR WITHSTAND VOLTA SOLATION RESIST	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F 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- Parameter ESD Radiated EFT / Burst Surge Conducted	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2, design refer to SEMI F47 at 200Vac 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 Test Level / Note Level 3, 8KV air; Level 2, 4KV contac Level 3 Level 3 2KV/Line-Line 4KV/Line-Earth Level 3	
AFETY STANDAR WITHSTAND VOLTA SOLATION RESIST	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms of the condition o	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2, design refer to SEMI F47 at 200Vac 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 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	
AFETY STANDAR WITHSTAND VOLTA SOLATION RESIST MC EMISSION MC IMMUNITY	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F 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- Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2, design refer to SEMI F47 at 200Vac Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8	Test Level / Note Class B Class A Class A 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	
AFETY STANDAR WITHSTAND VOLTA SOLATION RESIST MC EMISSION MC IMMUNITY OTHERS	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F 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- Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2, design refer to SEMI F47 at 200Vac Standard BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Test Level / Note Class B Class A Class A 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 periops interruptions 250 periods	
AFETY STANDAR WITHSTAND VOLTA SOLATION RESIST	AGE	EAC TP TC 004 approved I/P-O/P:3KVac I/P-FG:2KVac O/F 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- Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	P-FG:1.5KVac / 500Vdc / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2, design refer to SEMI F47 at 200Vac Standard BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Test Level / Note Class B Class A Class A 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 periops interruptions 250 periods	

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- 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. Tolerance: includes set up tolerance, line regulation and load regulation.
 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
 5. The efficiency is measured at 75% load.
 6. If use PV signal to adjust Vo, under certain operating conditions, ripple noise of Vo might slightly go over rating defined in this specification.
 7. FAN noise test set up according to ISO-7779.
 8. 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)
 9. 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).

 **Elizable on the control of the

⊸ PV

DATA ISOLATION

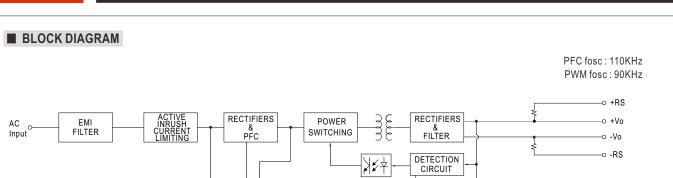
12Vdc/0.8A

AUX. POWER

○ T-Alarm

→ DC-OK O CANBus

⊸ R.C



MCU

O.T.P.

AUX POWER

■ STATIC CHARACTERISTICS

100 90 80 LOAD (%) 55 50 40 30 100 115 220 240 264 INPUT VOLTAGE (Vac) 60Hz

DETECTION CIRCUIT

■ DERATING LOADs vs INPUT VOLTAGE

O.V.P.

O.T.P.

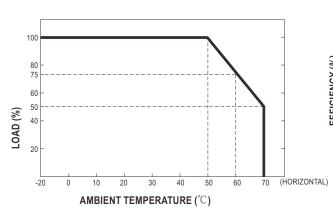
MCU

RECTIFIERS

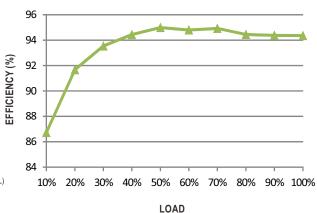
& FILTER

INPUT MODEL	24V	48V
180~264Vac	3192W	3216W
180~264 Vac	133A	67A
001/	1596W	1608W
90Vac	66.5A	33.5A

■ DERATING CURVE



■ EFFICIENCY vs LOAD (48V MODEL)



The curve above is measured at 230Vac.

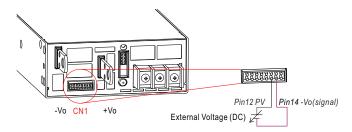


■ FUNCTION MANUAL

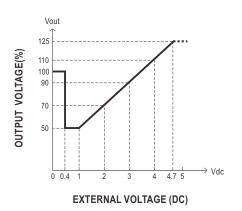
1. Output Voltage Programming (P.V)

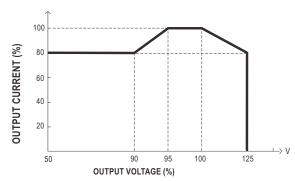
※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed to 50~125% of the nominal voltage by applying External Voltage.

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

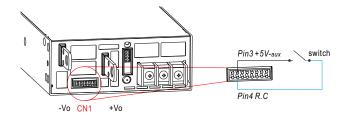




- The rated current should change with the Output Voltage Programming accordingly.
- O For Remote Sense / Local Sense, please refer to "Voltage Drop Compensation" section.

2. Remote Control

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



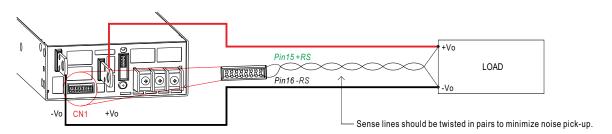
PSU Vo Status	Between +5V-aux(Pin 3) and R.C(Pin 4)	
Power ON	Switch Short	
Power OFF	Switch Open	



3. Voltage Drop Compensation

3.1 Remote Sense

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

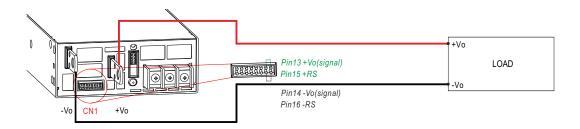


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The +RS signal should be connected to the positive terminal of the load whereas -RS signal to the negative terminal.

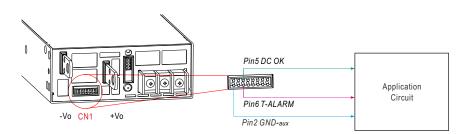
3.2 Local Sense

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.



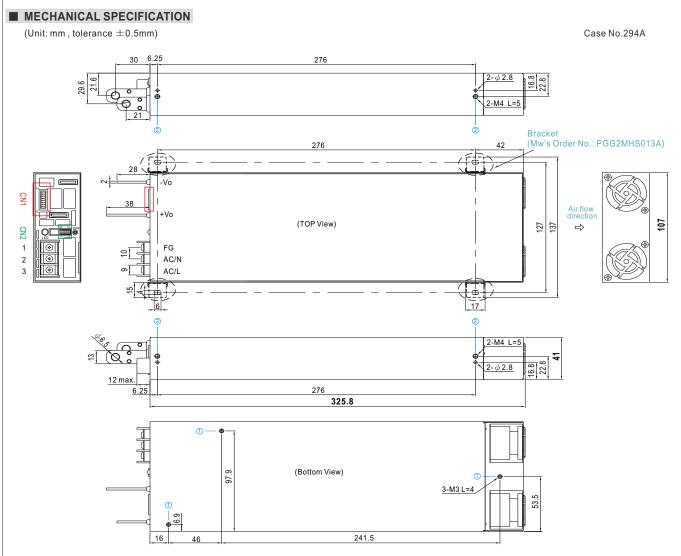
DC OK Fail signal	Power Supply Status
"High" > 3.5~5.5V	Vout ≦ 77%±5%
"Low" < -0.5~0.5V	Vout ≧ 80%±5%

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

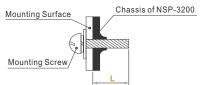
NSP-3200 supports CAN 2.0B with maximum 250KHz bus speed, allowing information reading, status monitoring, output trimming, etc. For details, please refer to the User's Manual.





※ 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

-			
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	-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 $(4.5 \sim 5.5 \text{Vdc})$: Power ON; Open $(-0.5 \sim 0.5 \text{Vdc})$: Power OFF; The maximum input voltage is 5.5Vdc .	
5	DC-OK	$\begin{aligned} & \text{High } (3.5 \sim 5.5 \text{Vdc}) : \text{When the Vout} \leq & 77\% \pm 5\%. \\ & \text{Low } (-0.5 \sim 0.5 \text{Vdc}) : \text{When Vout} \geq & 80\% \pm 5\%. \\ & \text{The maximum sourcing current is } & 10\text{mA and only for output.} \end{aligned}$	
6	T-ALARM	High (3.5 ~ 5.5Vdc): When the internal temperature exceeds the limit of temperature alarm, or when Fan fails. Low (-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].





X LED Status Indicators

LED	Description	
Green The power supply functions normally.		
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
ĺ	1	FG ±	. 1 2 3 .		
ĺ	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

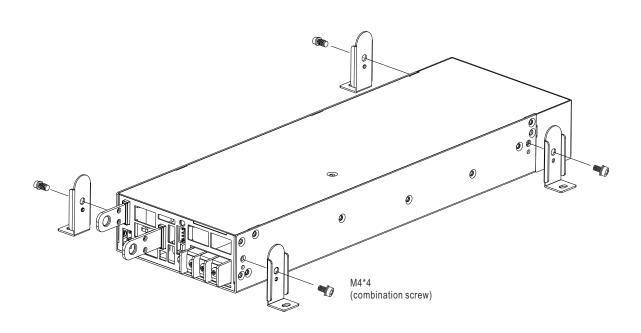
Pin No.	Function	Description
1,2,3,4	NC	For standard model: Retain for future use.
5,6	-Vo (Signal)	Negative output voltage signal. It is for local sense and certain function reference; it cannot be connected directly to the load.
7	CANH	For CANBus model: Data line used in CANBus interface. (Note)
8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



■ Installation Manual

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