

Front



Back



IEC62368-1
IEC61558-1/-2-16
IEC61010-1/-2-201
IEC60601-1
IEC60335-1
IEC62477-1

BS EN/EN62368-1
BS EN/EN61558-1/-2-16
BS EN/EN61010-1/-2-201
BS EN/EN60601-1
BS EN/EN60335-1
BS EN/EN62477-1

UL62368-1
UL61010-1-2-201
ANSI/AAMI ES60601-1



(Note.9)

GB4943.1

CNS15598-1

KC62368-1 (By request)

TPTC004



Features

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

Applications

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

GTIN CODE

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

Description

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

Model Encoding

NSP - 2400 - 48 MOD

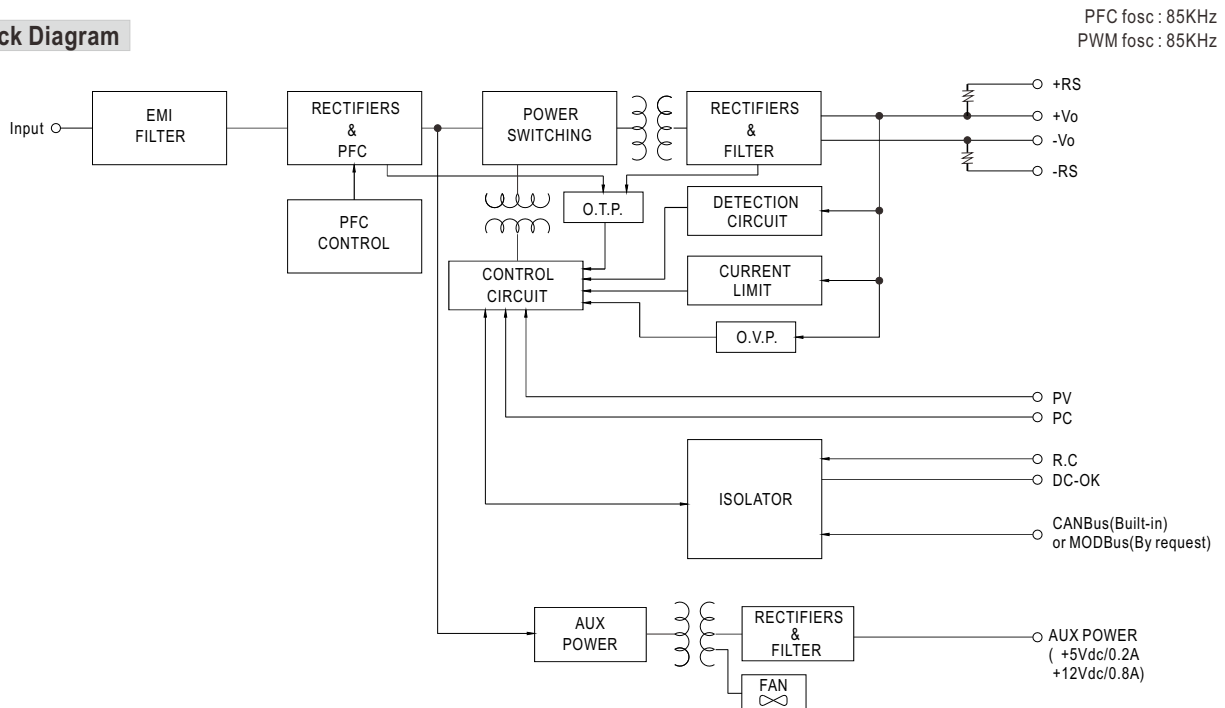
- Communication protocol option
- Output voltage (12V/15V/24V/27V/36V/48V/60V)
- Rated wattage
- Series name

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

SPECIFICATION		NSP-2400-12	NSP-2400-15	NSP-2400-24	NSP-2400-27	NSP-2400-36	NSP-2400-48	NSP-2400-60
		=Blank (standard model in stock), MOD (By request model)						
OUTPUT								
DC VOLTAGE		12V	15V	24V	27V	36V	48V	60V
CURRENT		183.3A	146.7A	100A	88.8A	66.6A	50A	40A
CURRENT RANGE		0 ~ 183.3A	0 ~ 146.7A	0 ~ 100A	0 ~ 88.8A	0 ~ 66.6A	0 ~ 50A	0 ~ 40A
RATED POWER		2200W	2200W	2400W	2397W	2397W	2400W	2400W
PEAK	Note.3	CURRENT	366.6A	293.3A	200A	177.6A	133A	100A
		POWER	4400W	4400W	4800W	4795W	4795W	4800W
RIPPLE & NOISE (max.)		Note.4	300mVp-p	300mVp-p	300mVp-p	300mVp-p	350mVp-p	450mVp-p
VOLTAGE ADJ. RANGE			10.8 ~ 14.4V	13.5 ~ 19V	21.6 ~ 28.8V	24.3 ~ 32.4V	32.4 ~ 43.2V	43.2 ~ 55V
VOLTAGE TOLERANCE		Note.5	± 1.0%					
LINE REGULATION			± 0.5%					
LOAD REGULATION			± 0.5%					
SETUP, RISE TIME		Note.6	1800ms, 60ms/115Vac; 1800ms, 60ms/230Vac; 1800ms, 60ms/277Vac at full load					
HOLD UP TIME (Typ.)			12ms @ 70% load, 8ms @full load					
INPUT								
VOLTAGE RANGE			85 ~ 305Vac 250 ~ 431Vdc					
FREQUENCY RANGE			47 ~ 63Hz					
POWER FACTOR (Typ.)			0.98/115Vac 0.95/230Vac 0.93/277Vac at full load					
EFFICIENCY (Typ.)			89%	90%	91%	91%	91.5%	92%
AC CURRENT (Typ.)			17A/115Vac 13A/230Vac 11A/277Vac					
INRUSH CURRENT (Typ.)			COLD START 30A/115Vac 60A/230Vac 75A/277Vac					
LEAKAGE CURRENT			Earth leakage current <500μA(rms)@277Vac ; Touch current<100μA(rms) @ 277Vac					
PROTECTION								
SHORT CIRCUIT			Shut down o/p voltage, re-power on to recover					
OVERLOAD		Note.7	Output power >105% rated for more than 5 seconds then shut down o/p voltage, re-power on to recover					
			Constant current limiting for output power >200% rated for more than 5 seconds and then shut down o/p voltage, re-power on to recover					
			User adjustable continuous constant current limiting or constant current limiting with delay shutdown after 5 seconds, re-power on to recover					
OVER VOLTAGE			15 ~ 19V	20 ~ 25V	29 ~ 37V	33 ~ 42V	44 ~ 54V	56 ~ 60V
			Protection type : Shut down and latch off output voltage, re-power on to recover					
OVER TEMPERATURE			Shut down output voltage, recovers automatically after temperature goes down					
FUNCTION								
OUTPUT CURRENT PROGRAMMABLE(PC)			Adjustment of constant current level is allowable between 0 ~ 100% of rated current. Please refer to the Function Manual.					
OUTPUT VOLTAGE PROGRAMMABLE(PV)		Note.14	Adjustment of output voltage is allowable to 0 ~ 120% of nominal output voltage. Please refer to the Function Manual.					
PARALLEL			Up to 9600W or (3+1) units. Please refer to the Function Manual.					
AUXILIARY POWER			5Vaux @ 0.2A Tolerance ± 15%, ripple 150mVp-p					
			12Vaux @ 0.8A Tolerance ± 15%, ripple 450mVp-p					
REMOTE CONTROL			By electrical signal or dry contact Power ON: RC short Power OFF: RC open					
REMOTE SENSE			Compensate voltage drop on the load wiring up to 0.5Vdc					
DC OK SIGNAL			Contact rating(max.):5Vdc/10mA resistive load					
CANBus(BUILT-IN) or MODBus(By Request) INTERFACE			Communication provides functions such as control, setting and monitoring					
FAN NOISE (Typ.)	Note.8		Built-in intelligent fan speed control detect by PSU'S internal temperature					
		10% load with Ta=25℃	38dB					
		70% load with Ta=25℃	46dB	44dB	44dB	42dB	38dB	40dB
ENVIRONMENT								
WORKING TEMP.			-40 ~ +85℃ (Refer to "Derating Curve")					
WORKING HUMIDITY			20 ~ 90% RH non-condensing					
STORAGE TEMP., HUMIDITY			-40 ~ +85℃, 10 ~ 95% RH non-condensing					
TEMP. COEFFICIENT			± 0.03%/℃ (0 ~ 60℃)					
VIBRATION			10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					

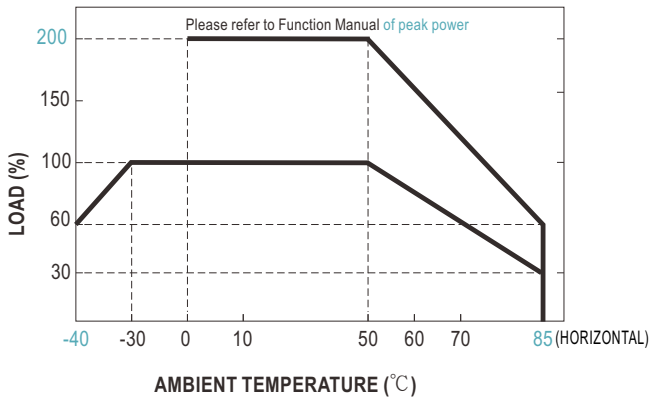
SAFETY & EMC(Note 9~11)			
SAFETY STANDARDS	CB	IEC62368-1, IEC60335-1, IEC61558-1/-2-16, IEC61010-1/-2-201, IEC60601-1; IEC62477-1	
	DEKRA	BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, BS EN/EN61010-1/-2-201, BS EN/EN60601-1(3.2 Version);BS EN/EN62477-1	
	UL	UL62368-1, ANSI/AAMI ES60601-1(3.2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

Block Diagram

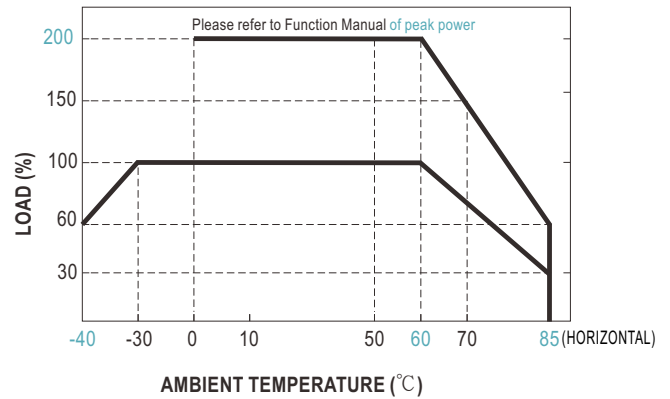


Derating Curve

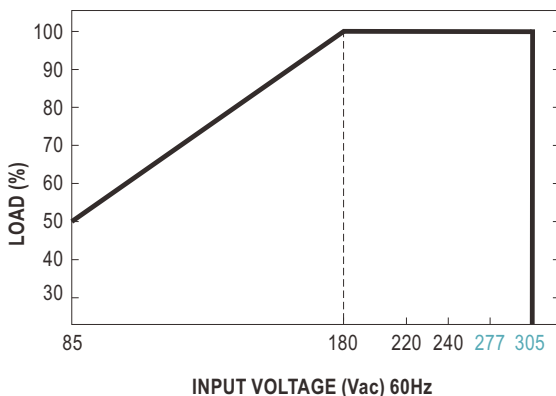
◎ 12V/15V



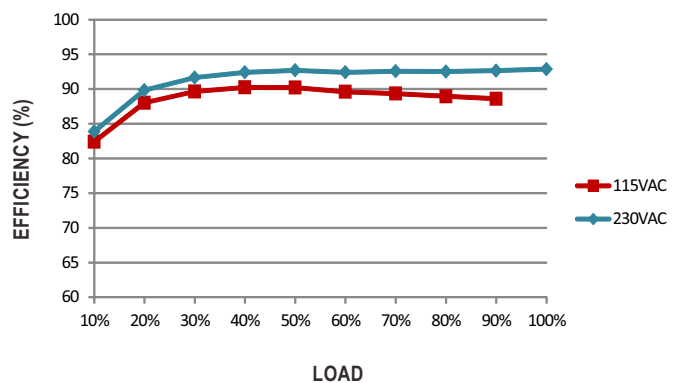
◎ Others



Static Characteristics



Efficiency vs Load (48V Model)



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

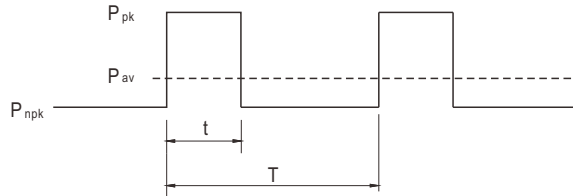
Function Manual

1. Peak Power

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

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

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



P_{av} : Average output power(W)

P_{pk} : Peak output power(W)

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

P_{rated} : Rated output power(W)

t : Peak power width(sec)

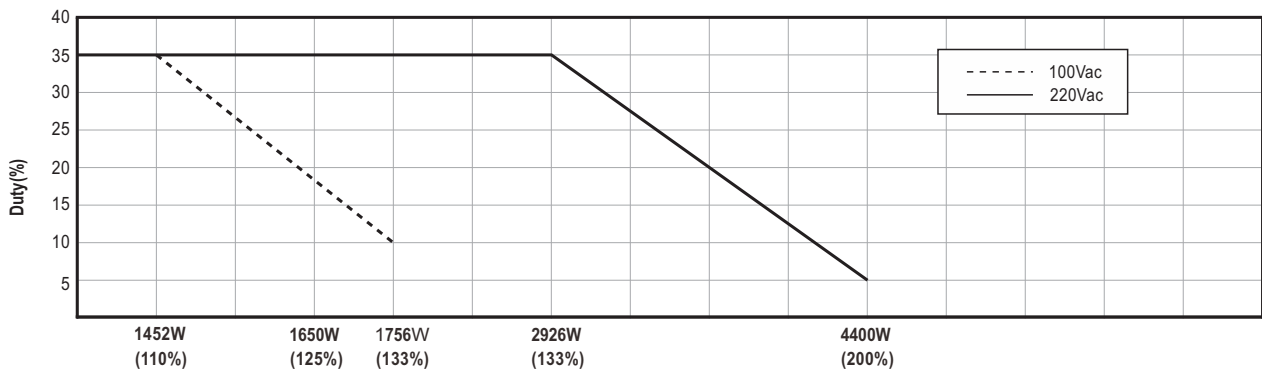
T : Period(sec)

Note:

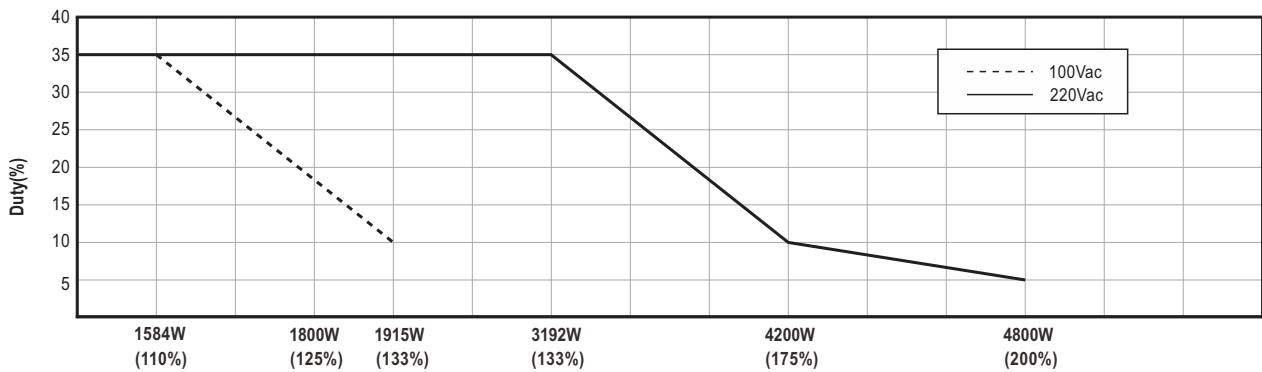
For 12V/15V models, $t \leq 2 \text{ sec}$.

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

12V/15V



Others



Peak output power (W)

For example (24V model)

$V_{in}=220\text{Vac}$, Duty_max=5%

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

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

$t \leq 5\text{sec}$

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

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

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

Note:

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

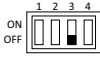
Input < 220 Vac: Peak power = 1.33 × rated power

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

2. Output Voltage Programming (P.V)

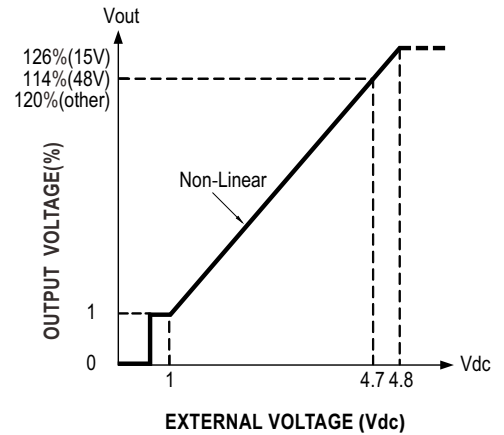
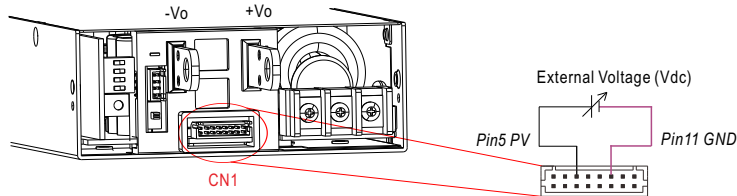
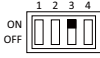
(1) Default by potentiometer (SVR)

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



(2) By Output Voltage Programming

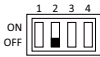
- Have the DIP switch position-3 set as
- The output voltage can be trimmed to 0~120% by applying EXTERNAL VOLTAGE between PV and GND on CN1.



3. Output Current Programming (P.C)

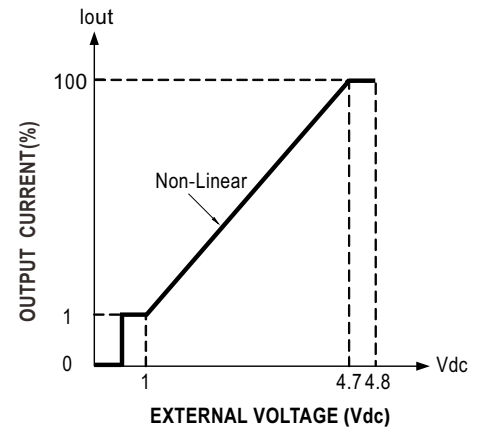
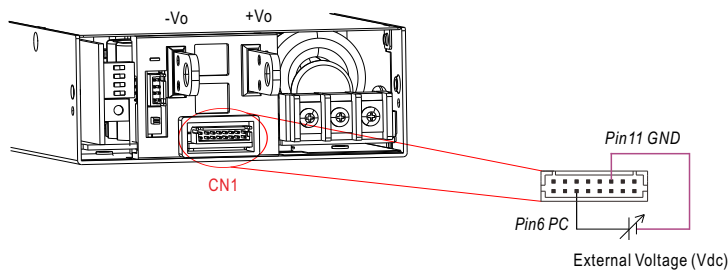
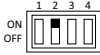
(1) Default Overload Protection (OLP) value

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



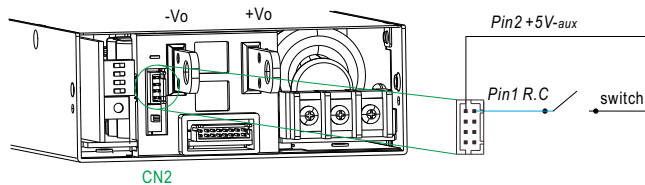
(2) By Constant Current Level Programming

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



4. Remote Control

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

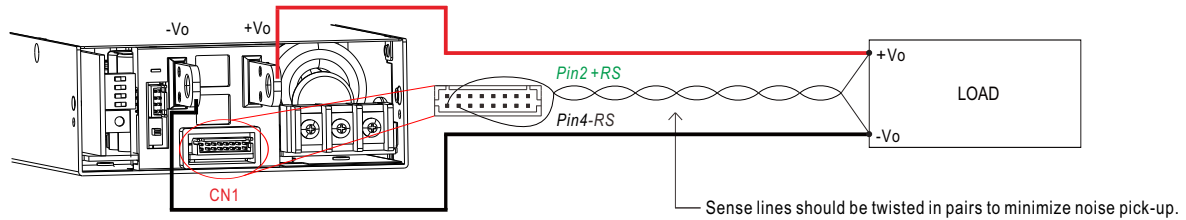


PSU Vo Status	Between +5V-aux(Pin 2) and R.C(Pin 1)
Power ON	Switch Short
Power OFF	Switch Open

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

5.Remote Sense

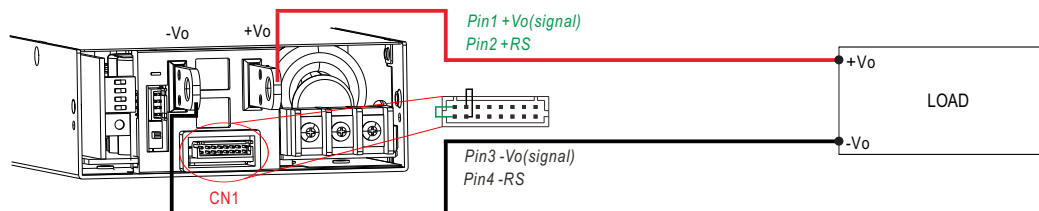
※ The Remote Sense compensates voltage drop on the load wiring up to 0.5Vdc



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

6.Local Sense

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



7. Paralled Use

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

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

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

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

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

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

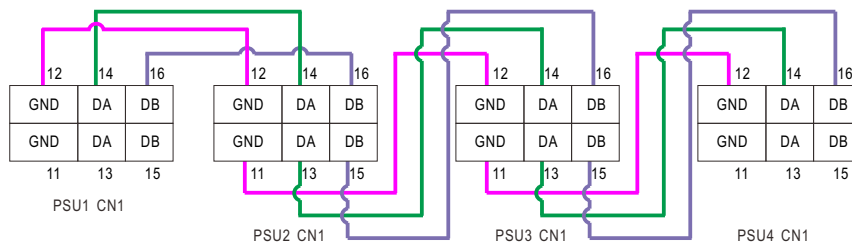
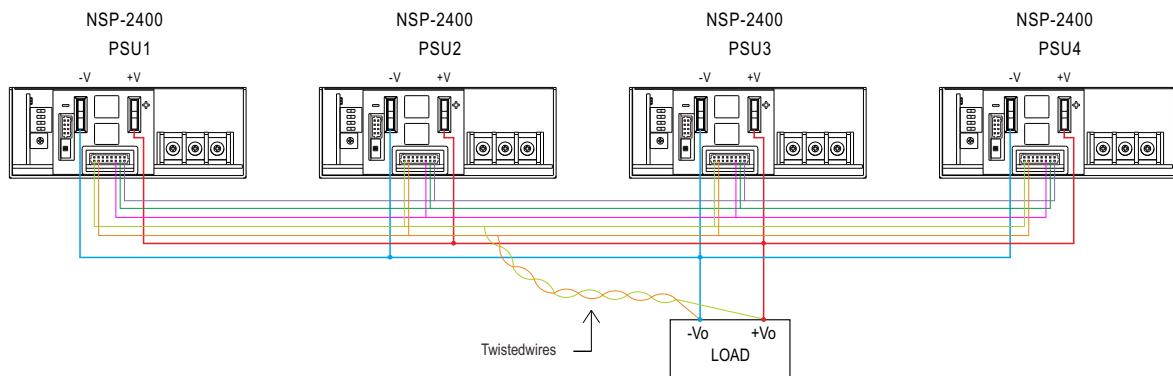
(5) When the total output current is less than 5% of the total rated current, or say $(5\% \text{ of Rated current per unit}) \times (\text{Number of unit})$ the current shared among units may not be fully balanced.

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

(7) CN1/SW1 Function pin connection

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

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



If the lines of CN1 are too long, they should be twisted in pairs to avoid the noise.

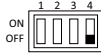
◎ DA,DB and GND are connected mutually in parallel.

◎ DA, DB signal and parallel control function

(1)Non-parallel operation

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

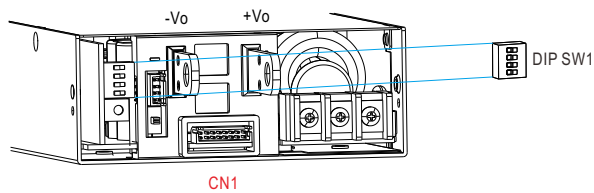
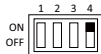
(b)By default, non-parallel operation.



(2)Default parallel operation

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

(b)PSUs are configured in parallel operation.



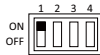
8. Overload Protection Mode

(1)Peak Load Mode

(a)Have the DIP switch position-1 as

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

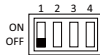
(c)Allow 1.33x or 2x peak load for 5 or 2 seconds.



(2)Current Limiting Mode

(a)Have the DIP switch position-1 as

(b)Limit current.



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

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

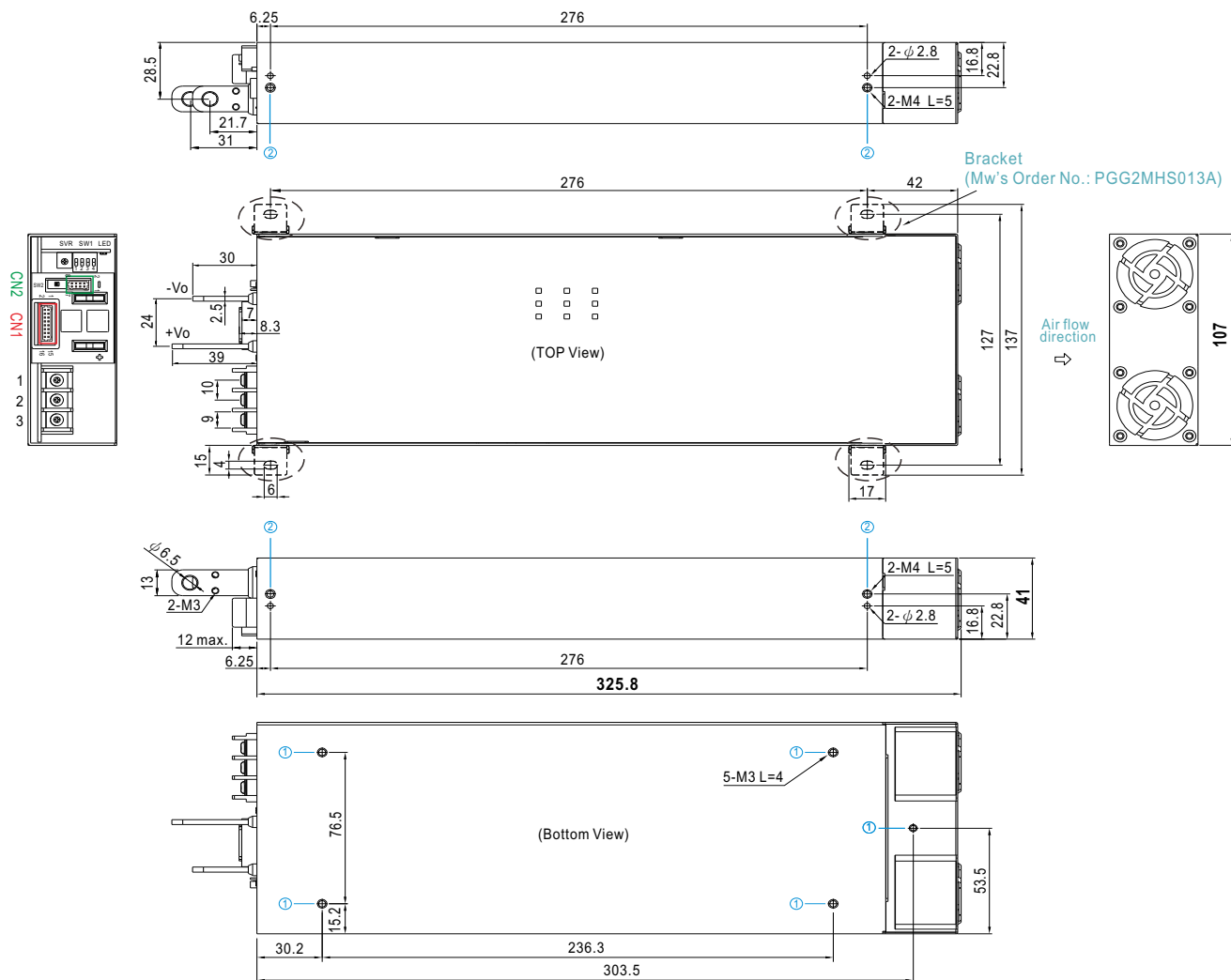
※ Communication provides function such as control, setting and monitorin , Parameters include output power, input voltage,etc.

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

Mechanical Specification

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

Case No. 294A

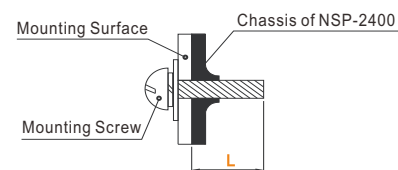


※ AC Input Terminal Pin No. Assignment

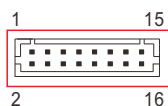
Pin No.	Assignment	Diagram	Screw Thread	Max. mounting torque
1	FG $\perp$		M3.5	8Kgf-cm
2	AC/N			
3	AC/L			

※ Mounting Instruction

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



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



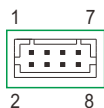
Mating Housing	HRS DF11-16DS or equivalent
Terminal	HRS DF11-16SC or equivalent

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

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

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

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



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

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

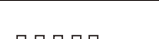
Note: Isolated signal, referenced to GND-AUX.

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

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

DIP-SW PIN1:OL_SD
DIP-SW PIN2:PC
DIP-SW PIN3:PV
DIP-SW PIN4:PRL

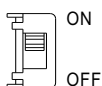
※ LED Status Indicators

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

Note: 1. Others include hardware fault etc

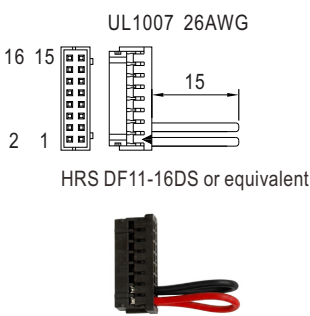
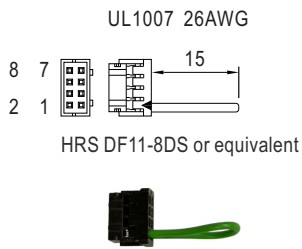
2. In Current Limiting mode, both OLP and SCP operate in constant current limiting, with the indicator steadily lit green.

※ Control Pin Assignment SW2



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

■ Accessory List

No.	Item	Quantity
1	Remote Sense(CN1) mating wire along with NSP-2400 (standard accessory) 	1pcs/per model
2	Remote Control(CN2) mating wire along with NSP-2400 (standard accessory) 	1pcs/per model
3	Bracket Mw's Order No.: PGG2MHS013A (By request accessory, should ordered separately) 	4pcs/per model (Please refer to Installation Diagram)
4	Terminal cover MW'S Order NO. : PEE4TBC-03-DG (By request accessory, should ordered separately)  PEE4TBC-03-DG	1pcs/per model

■ Installation Diagram

