

FEATURES

- 2 Year Warranty
- Optional Top Cover
- 90 ~ 264VAC Universal AC Input
- Approved to UL CUL TUV CE and CB
- Power Factor Corrected to EN61000-3-2 Class D
- 5V/ 12V/ 24V Dual Output Optional Combinations
- Compact 1U Size & Power Density: 5.2 Watts/cu in.
- Convection-Cooled and with Forced Air Cooling Rating Options

SPECIFICATIONS: PSPRL9802D Series

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.

INPUT SPECIFICATIONS			
Input Voltage	90 – 264VAC Full Range		
Input Frequency	47 to 63Hz		
Input Current	4A at 100VAC full load		
Inrush Current	35A max @ 110VAC with full load and cold start.		
Leakage Current	1.5mA max @ 240VAC		
Remote ON/OFF	Designated as REMO on the CN3, requires a low signal to inhibit output. Hiccup mode.		
OUTPUT SPECIFICATIONS			
Output Voltage	See Table		
Output Power Range	200 Watts max.		
Output Adjustability	Output user adjustable ±5% minimum.		
Total Regulation	±5%		
Output Current	See Table		
Ripple & Noise (peak to peak)	±1%		
Transient Response	Output voltage returns to within 1% in less than 500µs for a 50% dynamic load peak does not excess 5%.		
Hold-Up Time	20ms min. at 80% of full load.		
Overshoot	Turn-on/off not exceed 5% over nominal voltage.		
Turn On Delay	1 second maximum at 120VAC.		
PROTECTION			
Over Voltage Protection	Latching down will occur when output voltage exceeds 130% and recycle AC input to reset.		
Short Circuit Protection	Trip without damage and auto-recovery.		
Over-Temperature Protection	Protected in the event of excessive operating ambient 85°C and automatic recovery.		
Over-Power Protection	Hiccup mode 110-140%; auto-recovery.		
Input Circuit Protection	A protected 250V/5A fuse inserted.		
GENERAL SPECIFICATIONS			
Efficiency	75% minimum (Measuring at 230Vand full load).		
Withstand Voltage	1500 VAC input line to chassis (10mA DC cut off current, isolating 3000VAC primary to secondary windings. Primary to core 1500VAC. All for 3 seconds.		
Burn In	45 ±5°C for one hour @ 230VAC with full load.		
PFC	Active power factor correction meets EN61000-3-2 class D.		
Power Good	Designated as PG on the CN3 will go high 100-500ms after regulation and goes low 1ms before loss of regulation.		
Power Supply On	Green LED designated as LED 1 on the PCB.		
Grounding Test	Apply 25A from ground pin of the three-prong plug to the far most earth. Max allowable resistance 0.1 ohm		



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SPECIFICATIONS (CONTINUED)				
ENVIRONMENTAL SPECIFICATIONS				
Operating Temperature	0°C to +70°C ambient, de-rating at 2.5% per degree from 50°C to 70°C.			
Storage Temperature	-20°C to +85°C			
Operating Humidity	5% to 90% RH, non-condensing			
Storage Humidity	5% to 95% RH, non-condensing			
Vibration	Frequency 5 ~ 50Hz, acceleration ±7.35 m/(s x s) on X, Y, and Z axis.			
Cooling	200W max. with 17CFM airflow or 150W max. convection.			
Fan Drive	12VDC/300mA is available to drive an external fan.			
MTBF	100,000 hours (according to MIL-HBK-217F) at 30°C.			
PHYSICAL SPECIFICATIONS				
Weight	650 grams max.			
Dimensions	6.8(L) x 3.8(W) x 1.5(H) inches U-case			
Warranty	2 years			
SAFETY				
Emissions	FCC part15, CISPR 22 Class B, Conducted.			
Safety Regulations	Approved to UL60950-1, CSA C22.2 No. 60950-1-03, TUV EN60950-1, CE Mark (LVD) EN61000-3-2,3, and IEC61000-4 Series Regulations and CB.			

OUTPUT VOLTAGE / CURRENT RATING CHART

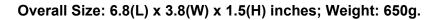
	Output Voltage Range	Output Current			Ripple &
Model		Max Load (17CFM)	Max. Load (Convection)	Regulation	Noise
PSPRL9802Dx-0512	V1: +5 VDC	25A	15A	±5%	±1%
	V2: +12 VDC	12.5A	10A	±5%	1%
PSPRL9802Dx-0524	V1: +5 VDC	25A	15A	±5%	1%
	V2: +24 VDC	6.25A	5A	±5%	1%
PSPRL9802Dx-1224	V1: +12 VDC	16.66A	12.5A	±5%	1%
	V2: +24 VDC	8.3A	6.25A	±5%	1%

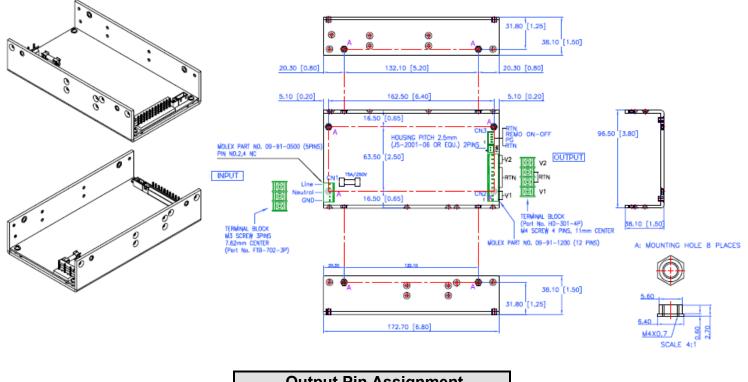
NOTES

- 1. PSPRL9802D Series is designated as PSPRL9802Dx-y where x can be blank (U-chassis) or C (U-chassis with top cover), y can be 0512, 0524, 1224 for output voltage.
- Total combined power of V1 and V2 not to exceed 200W with 17CFM forced air and 150W convection cooling for all models.
- 3. 10% minimum load is required for all outputs to maintain the ripple and regulation.
- 4. Ripple and noise is measured from 10KHZ to 20MHz bandwidth at output with parallel 0.1uF ceramic and 22uF electrolytic capacitors.



MECHANICAL DRAWINGS





Output Pin Assignment				
Howder	Molex			
V1: Pin 1	V1: Pins 1 – 3			
V2: Pin 4	V2: Pins 10 – 12			
RTN: Pins 2 – 3	RTN: Pins 4 – 9			

AC Input Connector (CN1):

Mating Molex Part No. 09-91-0500 or equivalent (5pin, 3used) PCB is Labeled: L = Line; N = Neutral; G = Chassis Ground Mating Pins; Molex Engineering Series 2478, 2578, 8818 or Howder Terminal block Part No. FTB-702-3P (3 pin).

Output Connector (CN2):

Mating Molex Part No. 09-91-1200 (12 pin) or Howder Terminal block Part No. HD-301-4P (4 pin).

Output Pin Assignment:

(See table above).

Logic signal connectors (CN3):

Mating JST XHP-5 or equivalent (CHYAO SHIUNN JS-2001-04). Mating Pins: JST SXH-002T-P0.6 for AWG 30 to 26.

Fan Drive:

Mating JST XHP-2 or equivalent (CHYAO SHIUNN JS-2001-02).

Mounting Inserts:

8 Places M4. Maximum Penetration 4mm see outline drawing for location.

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