

SERIES: VPM-S800-XXR-N | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- current monitoring and remote voltage adjustments (margin)
- short circuit, overload, and over voltage protections
- optional IEC320 AC inlet or terminal block
- current sharing



MODEL ¹	preset voltage	output voltage ^{1,2,3}		output current max	ripple and noise ^{4,5}	output power ^{6,7}	efficiency	
	(Vdc)	min (Vdc)	max (Vdc)	(A)	max (% Vp-p)	max (W)	typ (%)	
VPM-S800-12R-N	12	12	14	62.5	±1	750	80	
VPM-S800-15R-N	15	15	19	50	±1	750	83	
VPM-S800-24R-N	24	20	26	40	±1	800	83	
VPM-S800-36R-N	36	27	36	29.63	±1	800	83	
VPM-S800-40R-N	40	37	47	21.62	±1	800	83	
VPM-S800-48R-N	48	48	60	16.67	±1	800	83	

Notes:

1. customer must specify output voltage

2. output is fully isolated

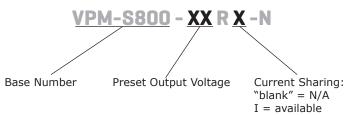
3. output voltage is measured at output power connector 4. 1% minimum load is required to maintain the ripple and regulation

5. ripple and noise is measured from 10 KHz to 20 MHz at output terminals with a 0.1 µF ceramic capacitor and a 22 µF electrolytic capacitor in parallel.

6. provides peak power of 900 W within 500 μ s for all models

7. must use external forced airflow min. 30 CFM to achieve maximum power.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current	at 90~264 Vac, full load			12	А
inrush current	at 230 Vac, full load, cold start			70	А
input fuse	Built-in ac fuse. A blown fuse usually indicate damage to the power supply serviceable by f				
power factor correction	at 230 Vac, full load			0.98	

OUTPUT

parameter	conditions/description r	min	typ	max	units
total regulation			±1		%
transient response	output voltage returns to within 1% in less than 2.5 ms for 50% load change, peak transient does not exceed 5%.	or a			
overshoot	turn-on and turn-off overshoot shall not exceed 5% over nominal voltage.				
turn-on delay	at 230 Vac			1.5	S
hold-up time	at 80% load	20			ms
adjustment range	output user adjustable		±5		%
remote sense ¹	Designated as RS+ and RS- on CN3. Total voltage compensation for cable losses with respect to the main ou	utput.			
remote on/off	Defined RSW on CN3, requiring a TTL low signal to inhibit	output.			
LED display (LED 1)	Green - the power supply is operating normally. Orange - when any protection occurs or Remote Inhibit is	in effect.			
power good	Designated as PG on CN3, signal goes high 100~500 ms the output reaches regulation, goes low at least 1 ms before loss of regulation.				
current sharing	Designated as CSH on CN3, optional single wired for force surrent sharing function and parallel up to 4 units within accuracy at full load.				
current monitor	Designated as CMN on CN3 for current sense, $0.5 \sim 3$ Vdc represent $0 \sim 100\%$ output current.	to			

Notes: 1. not available for current sharing models

PROTECTIONS

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parameter	conditions/description	min	typ	max	units
input under voltage protection	Power supply shuts down when ac input is under 8 When ac line reappears over 86 ±5 Vac, the powe restarts automatically.				
over voltage protection	shutdown and latches, ac input reset required to restart			130	%
over current protection	auto recovery	110		140	%Io
short circuit protection	continuous auto recovery upon removal of short				

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SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
	primary to secondary at 10 mA for 3 seconds	3,000			Vac
isolation voltage	primary to transformer core at 10 mA for 3 second	nds 1,500			Vac
	primary to earth ground at 10 mA for 3 seconds	1,500			Vac
safety approvals	UL 60950-1				
EMI/EMC	EN 55022 Class B conducted/radiated, EN 61000	-3-(2,3), EN 550	24, IEC 610	00-4-(2,3,4,5	,6,8,11)
leakage current	at 264 VAC			2	mA
grounding test	allowable resistance measured when 25 A curren is applied from the ground pin of the three prong plug to the farthest earthed connection point.	-		0.1	Ω
RoHS compliant	yes				
MTBF	according to MIL-HBK-217F at 30°C	100,000			hours

ENVIRONMENTAL

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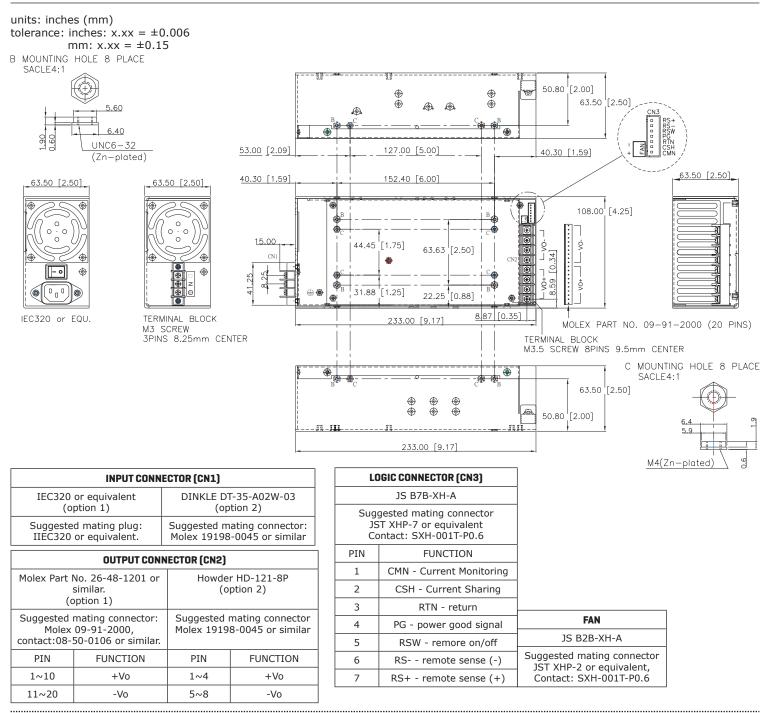
parameter	conditions/description	min	typ	max	units
operating temperature	derating linearly at 2.5% from 50~70°C	0		70	°C
storage temperature		-20		85	°C
operating humidity	non-condensing	5		90	%RH
storage humidity	non-condensing	5		95	%RH

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MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	9.17 x 4.25 x 2.5 (232.92 x 107.95 x 63.5 mm)				inch
weight				1.45	kg
Mounting holes	Two sets of 8 threaded mounting holes available on B: 6-32, maximum insertion depth of 0.2 inches. C: M4, maximum insertion depth of 0.2 inches.	the enclosure			

MECHANICAL DRAWING



REVISION HISTORY

rev.	description	date
1.0	initial release	12/12/2007
1.01	new template applied, V-Infinity branding removed	08/28/2012
1.02	TUV EN 60950-1 safety removed	06/18/2014

The revision history provided is for informational purposes only and is believed to be accurate.



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CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

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