

UNIVERSAL 80W POWER SUPPLY

RUGGEDIZED MILITARY DESIGN

Designed to meet Meet FCC Part 15 Class B, CISPR22.2 Class A, MIL-STD-461-F Compliant

Rugged metal enclosure with potting offers improved schock and vibration performance and resistance to environmental factors

Universal input 100~240V +/- 10%

Convection cooled

* Compact size					
SPECIFICATION					
MODEL		TRPS 80 series			
INPUT	Voltage and Frequency	90~264Vac, 47 ~ 63Hz			
	AC Current	1 A maximum at any input voltage range at maximum load condition			
	InrushCurrent(Typ.)	less than 40A at 120V~240v input (Optional low inrush model: less than 15 A at 110V input and less than 30 A at 220V input)			
	Power Factor	Passive power factor correction, meets EN61000-3-2 CLASS A			
	Leakage Current	<0.75mA / 240VAC 60HZ			
OUPTUT	Part Number	er RTPS 80-05-02	RTPS 80-12-02	RTPS 80-24-02	
	Output Voltage	5V	12V	24V	
	Current (A) Minimum	0A	0A	0A	
	Current (A) Maximum	16A	6.7A	3.3A	
	Max Rated Power	80W	80W	80W	
	Voltage Initial Setting	+/- 1%	+/- 1%	+/- 1%	
	Combined Load/Line Regulation	Output Maximum full rated o/p, CURRENT Regulation +/-5%,			
	Ripple and Noise	The ripple and noise is as follows when measured with maximum bandwidth of 20Mhz and 4.7uF/50V cross connected at output wire shall be less than1% P-P			
	Efficiency	81% minimum at 120~240VAC at maximum load			
	Turn-On Time	0.5S maximum to 90% of rated output voltage.			
	Hold up time	8 mS minimum			
PROTECTION	Over Current	Output limited less than 120% max rated output current			
	Short Circuit	output shall shut down and automatic restart			
	Over Voltage	Power supply shall not exceed 115% ~130% of rated output voltage.			
	Over Temperature	Power supply shall reduce the output voltage and current at the out of spec high temperature condition and maintain the hot spot temperature below components rating.			
ENVIRONMENT	Operating Temperature	nominal -40 to +60°C ambient at full load Linearly de-rate output power to 70% up to 80°C			
	Operating Humidity	5% to 95%, non-condensing			
	Cooling Requirement	Natural air convection cooling			
	Storage Temp., Humidity	-40 ~ +85°C 10 ~95% R.H			
	Altitude	15,000 ft minimum operation and -500ft to 40,000 ft storage			
	Vibration	Frequency 5 to 50 Hz, acceleration ±7.35 M/(S*S), direction X,Y and Z Axis			
SAFETY & EMC	Safety Standards	Compliant to UL1310 with class 2 output and UL60950 requirement			
	EMI Conduction & Radiation	Meets FCC Part 15 Class B, CISPR22.2 Class B With EMI filter meets MIL-STD-461F, FIXED WING EXTERNAL AND HELICOPTERS CE102,RE102,CS101,CS114,CS115,CS116,RS103			
	Reliability	Mean Time Between Failure (MTBF) >100,000 hours, MIL-HDBK217E at 40 degrees C ambient.			
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, heavy industry level (surge 4KV), criteria A			
	Isolation	1500VAC minimum from AC input to DC output 1500VAC minimum from AC input to Chassis Ground 500VAC minimum from DC output to Chassis Ground			
	Burn-In	48 hours at 100% rated load prior to final testing			
	MTBF	200K hrs minimum at 25C, convection cooled, per part calculation method			
	Warranty	3 years			
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RTPS80-02 Series

09/06/2016



