UNIVERSIAL 10W POWER SUPPLY RUGGIDIZED MILITARY DESIGN				RTPS10-XX-02 Series
* Universal inpu	G and MIL-STD-461F compl t 100~240V +/- 10% screw locking output connec		CON 40 40 40 404 400	ER SUPPLY 0-05-02A (47-63HZ, 0.5A)2A NECTOR PINOUT (1) (1) (1) (1) (1) (1) (1) (1)
	MODEL	RTPS 10 series		
	Voltage and Frequency	90~264Vac. 47 ~ 63Hz		
INPUT	AC Current	0.5 A maximum at any input voltage range at maximum load condition		
	Maximum AC Inrush	30A peak with a duration not to exceed 100msAC		
	Transient Protection	Meets ANSI C62.41-1991 Category A1, 2.5KV Ringwave and/or EN61000-4-5, with 1KV line to line and 2KV line to earth.		
	Part Number	RTPS10-05-02	RTPS10-12-02	
OUTPUT	Output Voltage (Set Point)	5V	12V	
	Current (A) Minimum	0A	0A	
	Current (A) Maximum	2A	0.83A	
	Max Rated Power(over full temp range)	10W	10W	
	Combined Load/Line Regulation	+/-5% including set point, line and load regulation over the full operating temperature range when measured at the output connector		
	Turn on time	Following thermal soaking over operating temperature range power supply shall meet the requirements of AC Input and DC Output within 1-2 seconds of AC power being applied.		
	Ripple and Noise	150mV p-p maximum as measured over full operating range(temperature and load) within the bandwidth of 10Hz to 20MHz.		
	Efficiency	74% or better at 75% maximum DC load measured at the DC cable output with respect to the AC cable input		
	Hold up time	10 milliseconds minimum at 75% full load, at 120 V input, @ 25°C.		
PROTECTION	Output Over Current Protection	Short circuit and over current protection with autoresetting		
	Output Over Voltage Protection	At 110% of nominal minimum.		
	ESD Susceptibility	± 4KV minimum for contact and ± 8KV minimum for air discharge per EN 61000-4-2.		
ENVIRONMENT	Operating Temperature	-40°C to +60°C.		
	Surface Temperature	Max of +49°C at +25°C ambient with rated output DC power per MIL-STD-147G section 5.7.6.9.1, Thermal Contact Hazards		
	Operating Humidity	10% to 95% relative humidity without condensation		
	Storage Temp., Storage Humidity	-40°C to +85°C, Up to 95% relative humidity without condensation		
	Altitude	-1500 to 50,000ft operating at 25C, -1500 to 15,000ft operating and -1500 to 70,000ft storage over full temperature range		
	Shock and Vibration	Vibration per IAW MIL-STD-810G, Method 514.6, Procedure 1, Category 4, 120 minutes per axis. Shock per IAW MIL-STD-810G, Method 516.6, Procedure 1, 20g peak, 11ms duration.		
	Drop Damage	No damage or malfunction after exposure to drop test IAW MIL-STD-810G Method 516.6 Procedure-IV Transit Drop. Complies with the applicable UL, CSA, RCM, CE and IEC safety requirements, including GS differences. Official qualification for each, including CB		
SAFETY & EMC	Safety Standards	scheme and listed for UL 60950-1. Note: RCM is only available for the Australian Power Supplies with AS/ NZS3112 AC Input Plugs. Maximum allowable leakage current is 3.5mA for 3 prong AC power plug (Class 1 Equipment)		
	EMI Conduction & Radiation	Meets FCC Part 15 Subpart A and B Class B, ICES-003, CISPR32, CISPR-24, EN 55032, EN 61000-3-2, EN 61000-3-3 Meets MIL-STD-461F, 102,RE102,CS101,CS114,CS115,CS116,RS103. The limits for Army Ground shall apply except where Fixed Wing External/Helicopter limit is specified per figure RE102-3 per page 104 of MIL-STD-461F shall apply.		
	Isolation	 * 1500VAC minimum from AC input to DC output * 1500VAC minimum from AC input to Chassis Ground * 141VDC from DC output pins to USB connector shell draws no more than 141V/1MegOhm=141 uA 		
	Burn-In	48 hours at 100% rated load prior to final testing		
	MTBF	500K hrs minimum at 25°C, convection cooled, per part calculation method		
		3 years		

