500W 5"×3" Reliable Green Medical Power Supply RPS-500 series

SPECIFICATION

SAFETY & EMC (Note 8)	SAFETY STANDARDS	IEC60601-1, TUV EN60601-1, UL ANSI / AAMI ES60601-1 (3.1 version),EAC TP TC 020. CAN/CSA-C22.2 No. 60601-1:14 - Edition 3 approved; Design refer to EN60335-1 (By request)				
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP, Primary-Earth:1xMOPP, Secondary-Earth:1xMOPP				
	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:100M Ohms / 500VDC / 25℃/ 70% RH				
	EMC EMISSION	**Parameter**	**Standard**	**Test Level / Note**		
		Conducted emission	EN55011 (CISPR11)	Class Ⅰ : Class B , Class Ⅱ: Class A		
		Radiated emission	EN55011 (CISPR11)	Class A		
		Harmonic current	EN61000-3-2	Class A		
		Voltage flicker	EN61000-3-3	-----		
	EMC IMMUNITY	EN55024 , EN60601-1-2, EN61204-3				
		Parameter	**Standard**	**Test Level / Note**		
		ESD	EN61000-4-2	Level 4, 15KV air ; Level 4, 8KV contact		
		RF field susceptibility	EN61000-4-3	Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz)		
		EFT bursts	EN61000-4-4	Level 3, 2KV		
		Surge susceptibility	EN61000-4-5	Level 4, 4KV/Line-FG ; 2KV/Line-Line		
		Conducted susceptibility	EN61000-4-6	Level 3, 10V		
		Magnetic field immunity	EN61000-4-8	Level 4, 30A/m		
		Voltage dip, interruption	EN61000-4-11	100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods		
OTHERS	MTBF	194.1Khrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	Type	RPS-500	RPS-500-C	RPS-500-TF	RPS-500-SF
		L*W*H	127x76.2x40mm	130x86x43mm	130x86x66.5mm	160x86x43mm
			5″x3″x1.57″inch	5.11″x3.39″x1.69″inch	5.11″x3.39″x2.62″inch	6.3″x3.39″x1.69″inch
	PACKING	P.W.	0.46Kg	0.54Kg	0.58Kg	0.64Kg
		Q'TY	30pcs	24pcs	24pcs	24pcs
		G.W.	14.8Kg	14Kg	14.9Kg	16.4Kg
		M'MENT	1.03CUFT	0.77CUFT	0.86CUFT	0.91CUFT

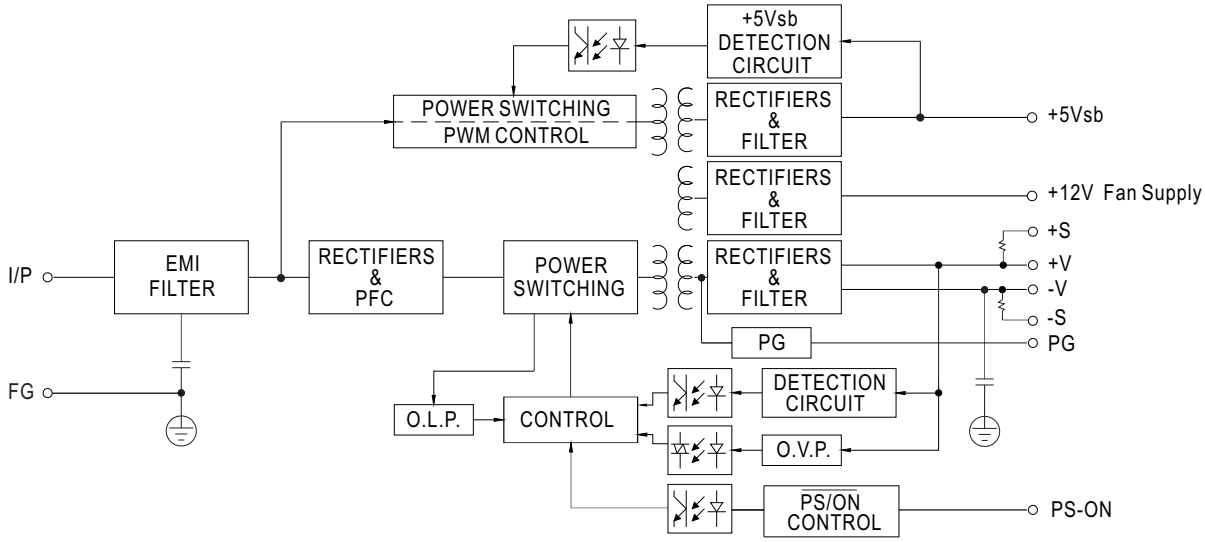
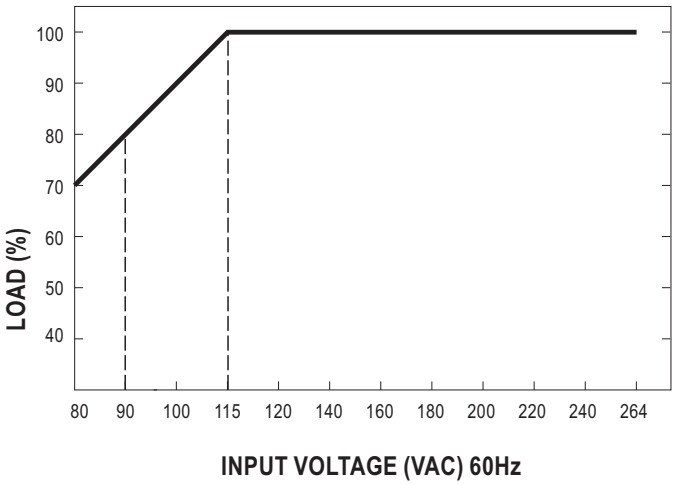
NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Derating may be needed under low input voltages. Please check the derating curve for more details.
5. Touch current was measured from primary input to DC output.
6. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
7. Please refer to "Derating curve".
8. The power supply is considered a component which will be installed into a final equipment. All EMC tests are 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 http://www.meanwell.com).

EMI Performance	Conducted	Radiated
Class Ⅰ (with FG)	Class B	Class A
Class Ⅱ (no FG)	Class A	Class A

■ Block Diagram

PFC fosc : 90KHz
PWM fosc : 100KHz



■ Output Derating vs Input Voltage