





Features

- 3"×2" compact size
- Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- · Suitable for BF application with appropriate system consideration
- · Cooling by free air convection
- EMI class B for class ${\rm I\hspace{-0.1em}I}$ configuration
- No load power consumption<0.1W
- Extremely low leakage current
- · Protections: Short circuit / Overload / Over voltage
- · 3 years warranty

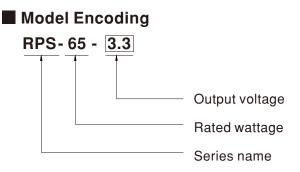


Applications

- Oral irrigator
- Hemodialysis machine
- Medical computer monitors
- Sleep apnea devices

Description

RPS-65 is a 65W highly reliable green PCB type medical power supply with a high power density on the 3" by 2" footprint. It accepts 80~264VAC input and offers various output voltages between 3.3V and 48V. The working efficiency is up to 91% and the extremely low no load power consumption is down below 0.1W. RPS-65 is able to be used for Class II (no FG) system design. The extremely low leakage current is less than $100 \,\mu$ A. In addition, it conforms to international medical regulations (2*MOPP) and EMC EN55011, perfectly fitting all kinds of BF rated "patient contact" medical system equipment.



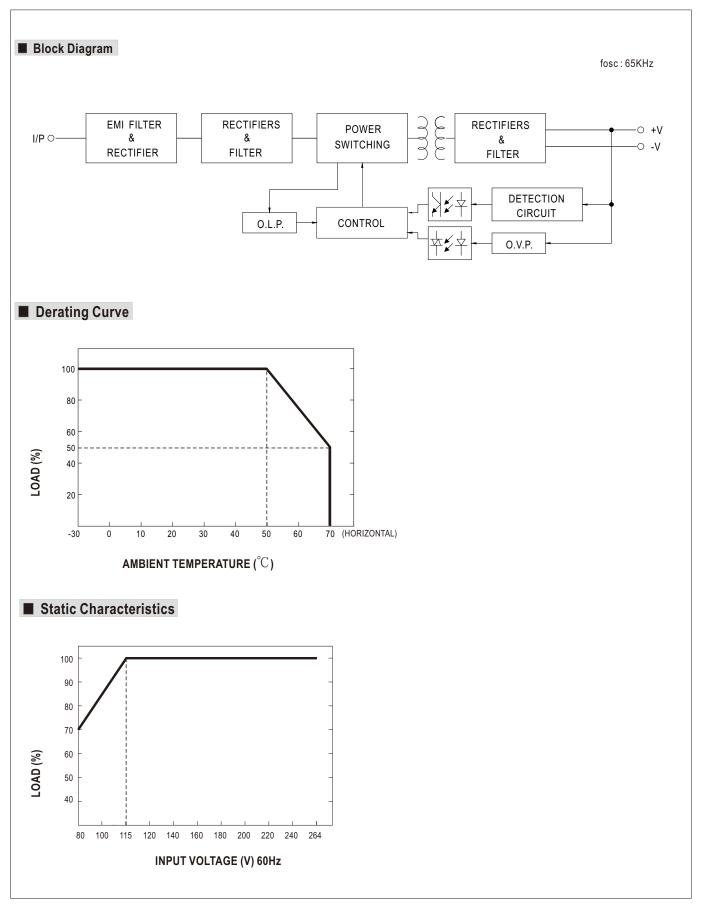


SPECIFICATION

ORDER NO	l.	RPS-65-3.3	RPS-65-5	RPS-65-7.5	RPS-65-12	RPS-65-15	6 RPS-65-24	RPS-65-48	
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	48V	
	RATED CURRENT	10A	10A	8A	5.42A	4.34A	2.71A	1.36A	
	CURRENT RANGE	0~11A	0~11A	0~8.8A	0~5.96A	0~4.77A	0~2.98A	0~1.49A	
	RATED POWER	33W	50W	60W	65W	65.1W	65W	65.3W	
OUTPUT	PEAK LOAD(10sec.)	36.3W	55W	66W	71.5W	71.6W	71.5W	71.5W	
	RIPPLE & NOISE (max.) Note.2		80mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	
	VOLTAGE ADJ.RANGE	2.9~3.6V	4.7~5.5V	7.12~8.3V	11.4~13.2V	13.5~16.5		45.6~52.8V	
	VOLTAGE TOLERANCE Note.3		±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	500ms, 30ms / 230VAC 500ms, 30ms / 115VAC at full load							
	HOLD UP TIME (Typ.)	30ms / 230VAC 12ms / 115VAC at full load							
	VOLTAGE RANGE Note.4	80 ~ 264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
NPUT	EFFICIENCY (Typ.)	80%	84%	85%	88%	89%	90%	91%	
	AC CURRENT (Typ.)	1.5A / 115VAC	1A / 230VAC		1		I	1	
	INRUSH CURRENT (Typ.)	COLD STAR 30A/115VAC 50A/230VAC							
	LEAKAGE CURRENT(max.) Note.5								
		115~150% rate							
PROTECTION	OVERLOAD			overs automaticall	v ofter fault condit	ion in romayad			
				1		1		55 0 04 0V	
PROTECTION	OVER VOLTAGE	3.8~4.5V	5.7~6.8V	8.6~11.3V	13.8~16.2V	17.2~20.3	/ 27.6~32.4V	55.2~64.8V	
				Itage, re-power on	to recover				
	WORKING TEMP.		fer to "Derating Cu	rve")					
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
INVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85 $^\circ \rm C$, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	OPERATING ALTITUDE Note.6								
		IEC60601-1, TUV EN60601-1, UL ANSI / AAMI ES60601-1 (3.1 version), CAN/CSA-C22.2 No. 60601-1:14 - Edition 3 a Design refer to EN60335-1							
	SAFETY STANDARDS								
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP							
	WITHSTAND VOLTAGE	I/P-O/P: 4KVAC							
	ISOLATION RESISTANCE	I/P-0/P:100M Ohms / 500VDC / 25°C / 70% RH							
		Parameter		Standard		1	Fest Level / Note		
	EMC EMISSION	Conducted emission		EN55011 (0	EN55011 (CISPR11)		Class B		
		Radiated emission		EN55011 (0	EN55011 (CISPR11)		Class B		
SAFETY &		Harmonic current		EN61000-3	EN61000-3-2		Class A		
		Voltage flicker EN61000-3-3							
EMC Note. 7)		EN60601-1-2							
Note. 1)		Parameter		Standard			Test Level / Note		
		ESD		EN61000-4	EN61000-4-2		Level 4, 15KV air ; Level 4, 8KV contact		
		RF field susceptibility		EN61000-4	EN61000-4-3		Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz)		
		EFT bursts		EN61000-/	EN61000-4-4		Level 3, 2KV		
	EMC IMMUNITY	Surge susceptibility			EN61000-4-5		Level 4, 2KV/Line-Line		
		Conducted susceptibility			EN61000-4-6		Level 3, 10V		
		Magnetic field immunity			EN61000-4-8		Level 4, 30A/m		
		Voltage dip, inte			EN61000-4-11		100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods		
OTHERS	MTBF	959.1Khrs min. MIL-HDBK-217(25°C)							
	DIMENSION (L*W*H)	76.2*50.8*24mm or 3" * 2" *0.945" inch							
	PACKING	0.11Kg; 120pcs/14.2Kg/0.97CUFT							
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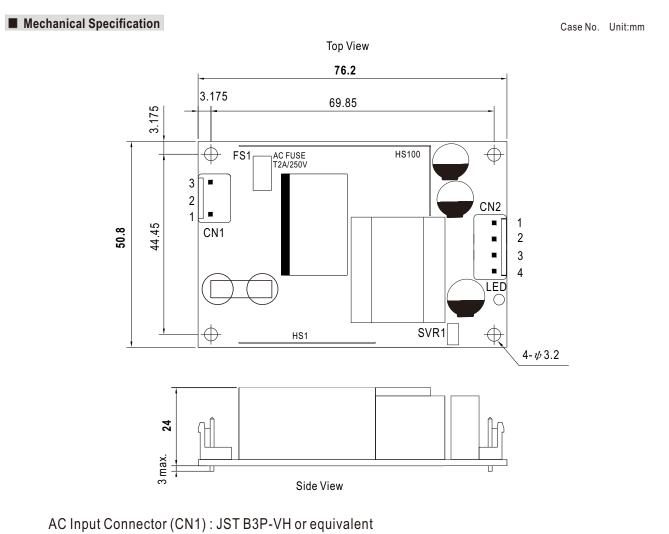


RPS-65 series





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Pin No.	Assignment	Mating Housing	Terminal	
1	AC/N			
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent	
3	AC/L	or oquivaloni	or oquivaloni	

DC Output Connector (CN2) : JST B4P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+V		
2	+V	JST VHR	JST SVH-21T-P1.1
3	-V	or equivalent	or equivalent
4	-V		

Installation Manual

Please refer to : http://www.meanwell.com/manual.html