

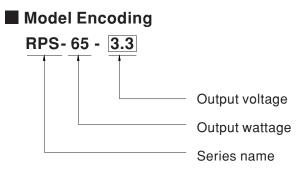




- 3"×2" miniature size
- · Universal AC input / Full range
- Class II (without FG) installations
- Medical safety approved
- (2 x MOPP between primary to secondary)
- Suitable for BF application with appropriate system consideration
- Low leakage current <100µA</li>
- No load power consumption<0.1W
- High efficiency up to 91%
- For 1U applications
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- · -30~70°℃ wide range of operating temperature
- Operating altitude up to 4000 meters(Note 6.)
- LED indicator for power on
- · 3 years warranty

## 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.





## Applications

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

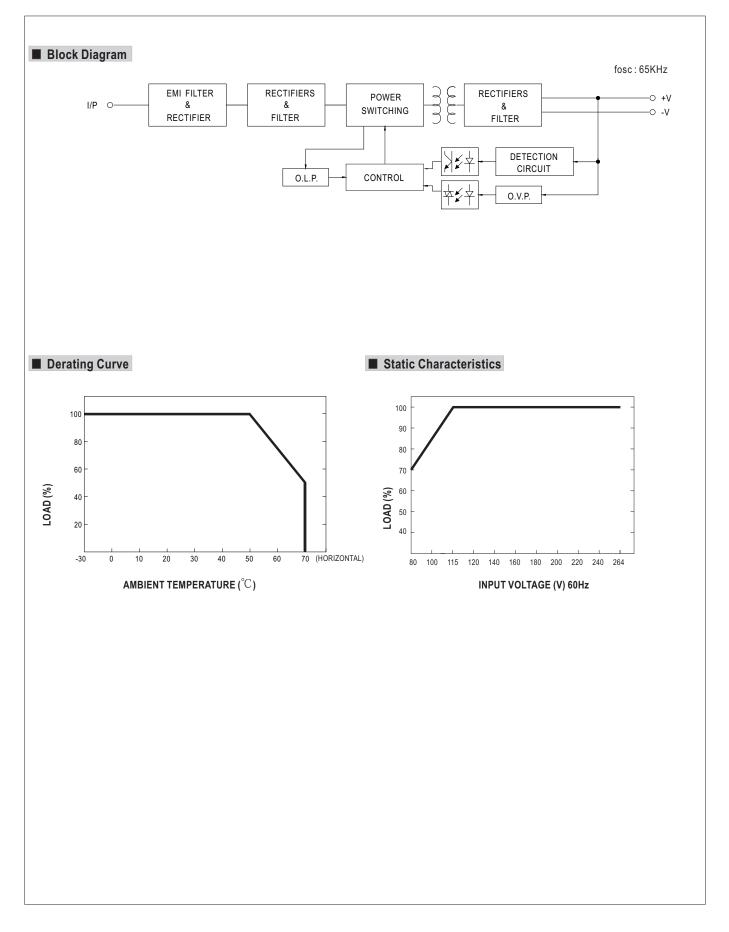


## SPECIFICATION

ORDER NO		RPS-65-3.3	RPS-65-5	RPS-65-7.5	RPS-65-12	RPS-65-15	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	150mVp-p	240mVp-p	300mVp-p	
	VOLTAGE ADJ.RANGE	2.9~3.6V	4.7~5.5V	7.12~8.3V	11.4~13.2V	13.5~16.5V	22.8~27.6V	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%	$\pm 0.5\%$	
	LOAD REGULATION	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	500ms, 30ms / 23		30ms / 115VAC at		- 1.0 /0	- 1.070		
	HOLD UP TIME (Typ.)	30ms / 230VAC 12ms / 115VAC at full load							
		80~264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
INPUT	EFFICIENCY (Typ.)	80%	84%	85%	88%	89%	90%	91%	
INFUT	AC CURRENT (Typ.)	1.5A / 115VAC	1A / 230VAC	00 /0	00 /0	0970	90 /6	91/0	
	INRUSH CURRENT (Typ.)			20)/4.0					
			A/115VAC 50A/2	JUVAC					
	LEAKAGE CURRENT Note.5								
	OVERLOAD	115 ~ 150% rated output power         Protection type : Hiccup mode, recovers automatically after fault condition is removed							
DOTECTION							07.0.00.41/	55 0. 04 0V	
PROTECTION	OVER VOLTAGE	3.8~4.46V	5.75~6.75V	8.62~11.3V age, re-power on t	13.8~16.2V	17.25~20.25V	27.6~32.4V	55.2~64.8V	
					orecover				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH							
ENVIRONMENT									
	TEMP. COEFFICIENT	±0.03% /°C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved							
SAFETY &	ISOLATION LEVEL	Primary-Secondary: 2xMOPP							
EMC	WITHSTAND VOLTAGE								
(Note. 6)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to EN55011(CISPR11) class B, EN61000-3-2,3							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2 medical level, criteria A							
	MTBF	959.1Khrs min. MIL-HDBK-217(25°C)							
OTHERS	DIMENSION		or 3" * 2" *0.945" in	ch (L^W^H)					
	PACKING	0.11Kg; 120pcs/1	4.2Kg/0.97CUF1						
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>Touch current was measured from primary input to DC output.</li> <li>The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m (6500ft).</li> <li>The power supply is considered a component which will be installed into a final equipment. 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)</li> </ol>								

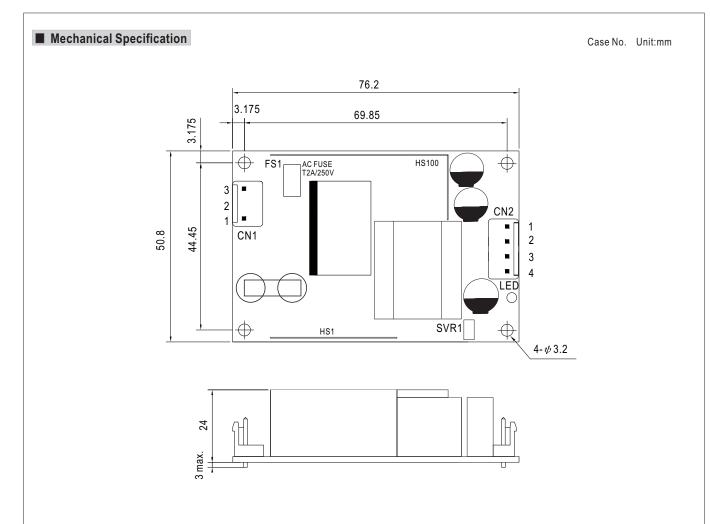


# **RPS-65** series





## **RPS-65** series



AC Input Connector (CN1) : JST B3P-VH or equivalent

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

#### DC Output Connector (CN2) : JST B2P-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