





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

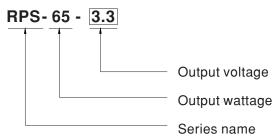


- 3"×2" miniature size
- · Universal AC input / Full range
- Class II (without FG) installations
- Medical safety approved
 (2 x MOPP between primary to secondary)
- Suitable for BF application with appropriate system consideration
- · Low leakage current <100μA
- No load power consumption<0.1W
- · High efficiency up to 91%
- For 1U applications
- Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- -30~70°C 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 $80 \sim 264 \text{VAC}$ 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 $100\mu\text{A}$. 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.

■ Model Encoding



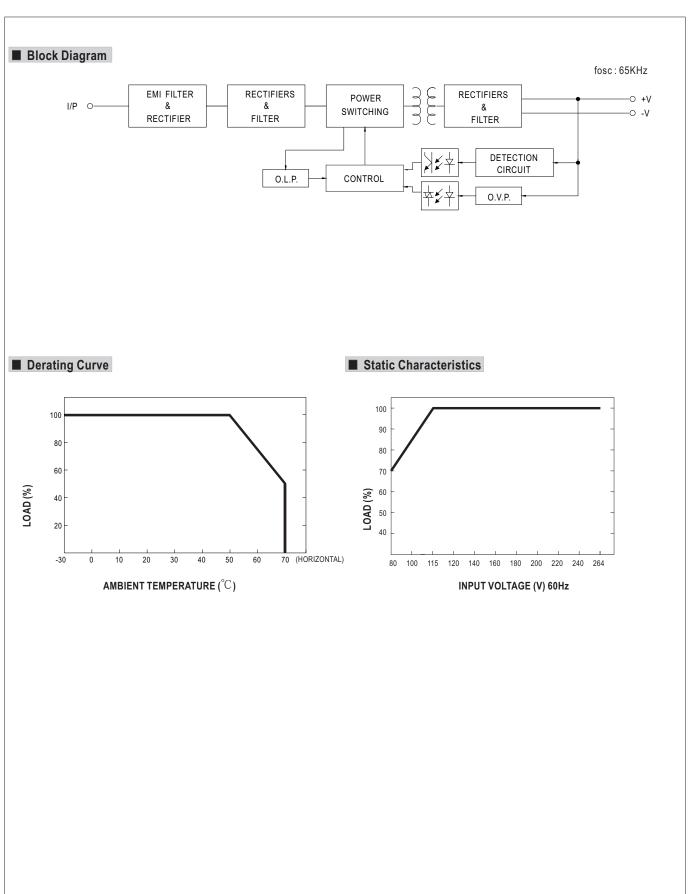


65W Single Output Medical Type

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%	±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				_ 1.070	
	HOLD UP TIME (Typ.)	30ms / 230VAC 12ms / 115VAC at full load							
		80 ~ 264VAC							
	FREQUENCY RANGE	00 ~ 204VAC 47 ~ 63Hz							
INPUT	EFFICIENCY (Typ.)	80%	84%	85%	88%	89%	90%	91%	
1141 01	AC CURRENT (Typ.)	1.5A / 115VAC	1A / 230VAC	0070	00 /0	0970	30 /0	9170	
	INRUSH CURRENT (Typ.)			10) (4 C					
			A/115VAC 50A/23	BUVAC					
	LEARAGE CORRENT Note.5	5 Touch current< 100 μ A/264VAC 115 ~ 150% rated output power							
	OVERLOAD				. often foult conditi	ion in romand			
DDOTECTION			1	overs automatically			07.0.00.41/	FF 0, 04 0\/	
PROTECTION	OVER VOLTAGE	3.8~4.46V	5.75~6.75V	8.62~11.3V	13.8~16.2V	17.25~20.25V	27.6~32.4V	55.2~64.8V	
	WORKING TEMP	Protection type: Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
ENVIRONMENT	,	-40 ~ +85°C, 10 ~ 95% RH							
	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 (Note. 6)	WITHSTAND VOLTAGE	I/P-0/P: 4KVAC							
(Note. 0)	ISOLATION RESISTANCE	/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 DIMENSION	959.1Khrs min. MIL-HDBK-217(25°C) 76.2*50.8*24mm or 3" * 2" *0.945" inch (L*W*H)							
OTHERS	PACKING	0.11Kg; 120pcs/1		ich (L"VV"H)					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf 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 5°C/1000m is needed for operating altitude greater than 2000m (6500ft). 7. 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)								

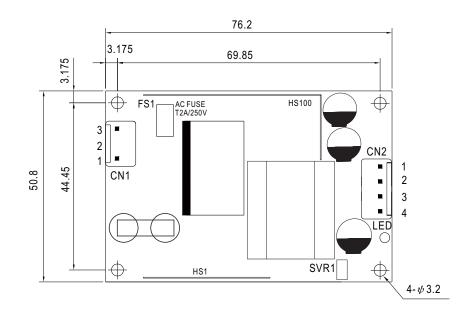


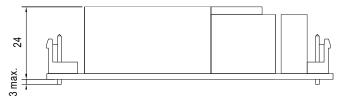




■ Mechanical Specification

Case No. Unit:mm





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

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

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/webnet/search/InstallationSearch.html