

















■ Features

- · 3"x2" 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

 configuration
- No load power consumption<0.1W
- · Extremely low leakage current
- Protections: Short circuit / Overload / Over voltage
- 3 years warranty

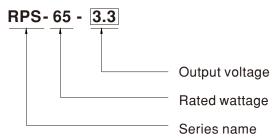
Applications

- 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 $80\sim264$ 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 $100\,\mu$ 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 Reliable Green Medical Power Supply

SPECIFICATION

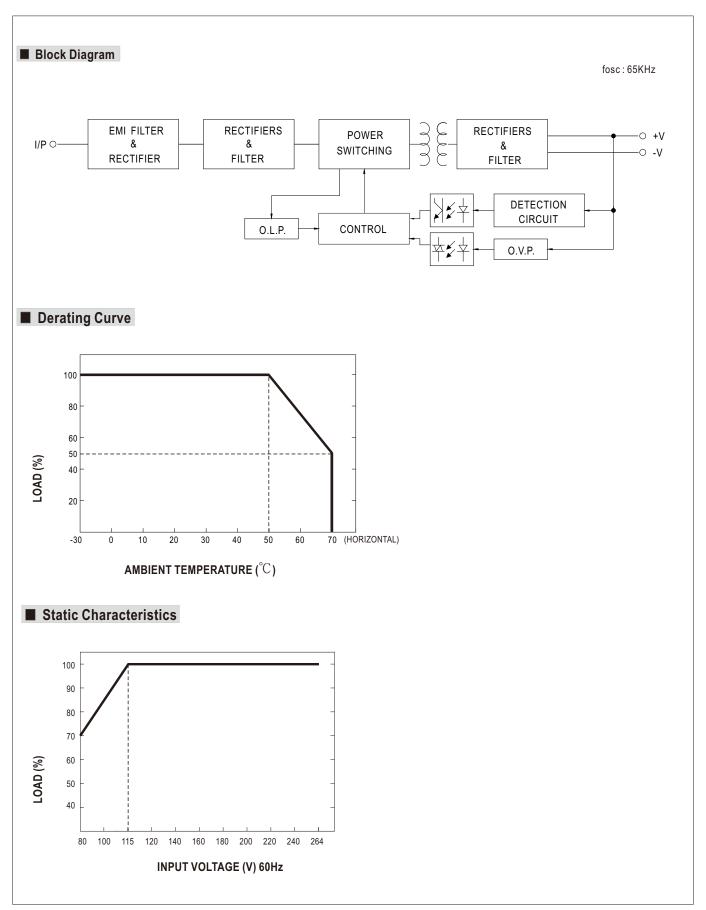
ORDER NO).	RPS-65-3.3	RPS-65-5	RPS-65-7.5	RPS-65-12	RPS-65-15	RPS-65-24	RPS-65-48						
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	48V						
ОИТРИТ	RATED CURRENT	10A	10A	8A	5.42A	4.34A	2.71A	1.36A						
	CURRENT RANGE	0 ~ 11A	0 ~ 11A	0 ~ 8.8A	0 ~ 5.96A	0 ~ 4.77A	0 ~ 2.98A	0 ~ 1.49A						
	RATED POWER	33W	50W	60W	65W	65.1W	65W	65.3W						
	PEAK LOAD(10sec.)	36.3W	55W	66W	71.5W	71.6W	71.5W	71.5W						
	RIPPLE & NOISE (max.) Note.2	80mVp-p	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	13.5~16.5V	22.8~27.6V	45.6~52.8\						
	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												
		80 ~ 264VAC												
	FREQUENCY RANGE	80 ~ 264 VAC 47 ~ 63 Hz												
IPUT		80%	84%	85%	88%	89%	90%	91%						
IFUI	EFFICIENCY (Typ.)			00%	0070	0970	90%	91%						
	AC CURRENT (Typ.)	1.5A / 115VAC 1A / 230VAC												
	INRUSH CURRENT (Typ.)	COLD STAR 30A/115VAC 50A/230VAC												
	LEAKAGE CURRENT(max.) Note.5													
PROTECTION	OVERLOAD	115 ~ 150% rated output power												
			· · · · · · · · · · · · · · · · · · ·	overs automatically	after fault condit	ion is removed								
	OVER VOLTAGE	3.8~4.5V	5.7~6.8V	8.6~11.3V	13.8~16.2V	17.2~20.3V	27.6~32.4V	55.2~64.8\						
	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover												
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20% ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-40 ~ +85°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	· · ·												
	SAFETY STANDARDS	IEC60601-1, TUV EN60601-1, EAC TPTC 004, UL ANSI / AAMI ES60601-1 (3.1 version), CAN/CSA-C22.2 No. 60601-1:14 - Edition 3 approved; Design refer to EN60335-1												
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP												
	WITHSTAND VOLTAGE	I/P-O/P: 4KVAC												
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH												
SAFETY & EMC (Note. 7)		Parameter		Standard		Te	st Level / Note							
	EMC EMISSION	Conducted emission EN55011 (CISPR11) Class B												
		Radiated emissi	on	EN55011 (0	EN55011 (CISPR11)		ass B							
		Harmonic current EN61000-3-2 Class A												
		Voltage flicker EN61000-3-3												
	EMC IMMUNITY	EN60601-1-2												
		Parameter			Standard		Test Level / Note							
		RF field susceptibility			EN61000-4-2 EN61000-4-3		Level 4, 15KV air; Level 4, 8KV contact Level 3, 10V/m(80MHz~2.7GHz)							
		EFT bursts		EN61000-4	EN61000-4-4		Table 9, 9~28V/m(385MHz~5.78GHz) Level 3, 2KV							
		Surge susceptibility			EN61000-4-4 EN61000-4-5		Level 4, 2KV/Line-Line							
		Conducted susc	-	EN61000-4			vel 3, 10V							
					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												
		959.1Khrs min. MIL-HDBK-217(25°C)												
	MTBF	959.1Khrs min	MIL-HDRK-217(25	C)			76.2*50.8*24mm or 3" * 2" *0.945" inch							
OTHERS	MTBF DIMENSION (L*W*H)		,	· ·										

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ f & 47μ f parallel capacitor.
- ${\it 3. Tolerance: includes set up tolerance, line \ regulation \ and \ load \ regulation.}$
- 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.

NOTE

- 6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher 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)

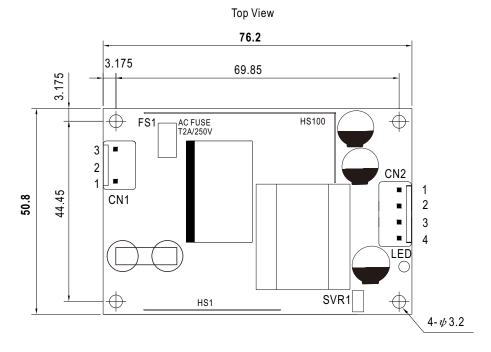


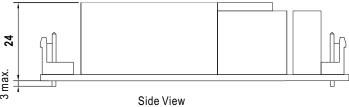




■ Mechanical Specification

Case No. Unit:mm





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

Pin No.	Assignment	Mating Housing	Terminal	
1	AC/N	IOTALID	IOT OVILLOAT DA A	
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent	
3	AC/L	or oquivalone		

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 or equivalent
3	-V	or equivalent	
4	-V		

■ Installation Manual

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