

























■ Features

- · 3"x2" compact size
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1 and IEC/BS EN/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
- Operating altitude up to 4000 meters
- 3 years warranty

Applications

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

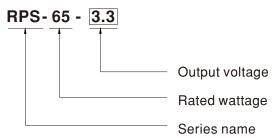
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

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 $100\,\mu\text{A}$. In addition, it conforms to international medical regulations (2*MOPP) and EMC BS EN/EN55011, perfectly fitting all kinds of BF rated "patient contact" medical system equipment.

■ Model Encoding





SPECIFICATION

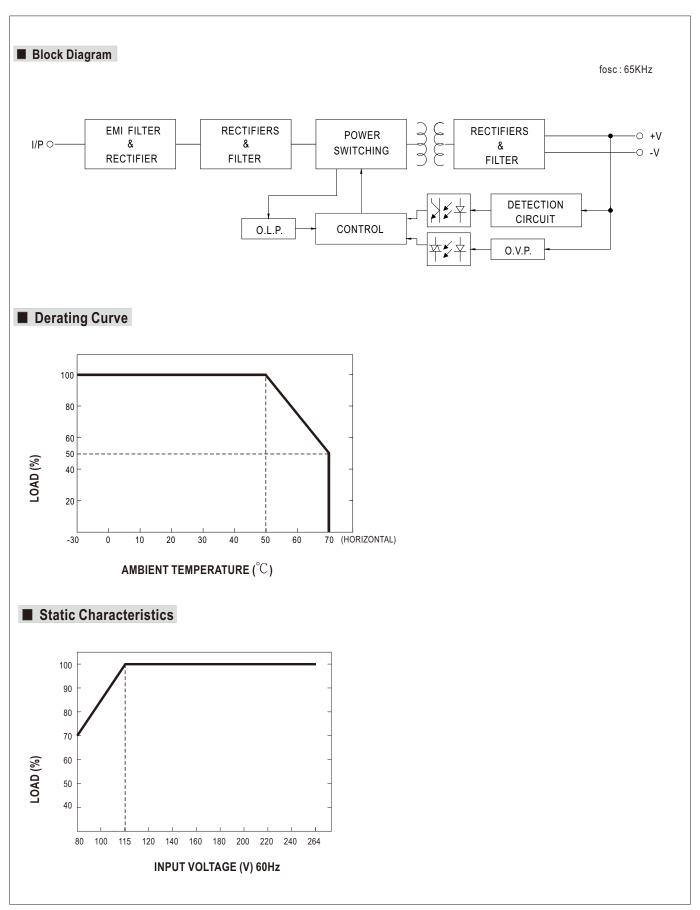
RDER NO.		RPS-65-3.3	RPS-65-5	RPS-65-7.5	RPS-65-12	RPS-65-15	RPS-65-24	RPS-65-48	
ОИТРИТ	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	48V	
	RATED CURRENT	10A	10A	8A	5.42A	4.34A	2.71A	1.36A	
	CURRENT RANGE	0 ~ 11A	0 ~ 11A	0 ~ 8.8A	0 ~ 5.96A	0 ~ 4.77A	0 ~ 2.98A	0 ~ 1.49A	
	RATED POWER	33W	50W	60W	65W	65.1W	65W	65.3W	
	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.		±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	土0.5%	±0.5%	士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			Tunioda				
	, , , ,	30ms / 230VAC 12ms / 115VAC at full load 80 ~ 264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
IPUT			0.40/	050/	000/	000/	000/	040/	
PUI	EFFICIENCY (Typ.)	80%	84%	85%	88%	89%	90%	91%	
	AC CURRENT (Typ.)	1.5A/115VAC 1A/230VAC							
	INRUSH CURRENT (Typ.)	COLD STAR 30A/115VAC 50A/230VAC							
	LEAKAGE CURRENT(max.) Note.	Touch current< 100 µA/264 VAC							
	OVERLOAD	115 ~ 150% rated output power							
		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
ROTECTION	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 VOLINGE	Protection type :	Shut down o/p vo	Itage, re-power on t	o recover				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	$-40 \sim +85^{\circ}$ C, $10 \sim 95\%$ 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 BS EN/EN60601-1, EAC TP TC 004,UL ANSI / AAMI ES60601-1 (3.1 version), CAN/CSA-C22.2 No. 60601-1:14 - Edition 3 approved; Design refer to BS EN/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							
		Parameter		Standard		Te	est Level / Note		
	EMC EMISSION	Conducted emission		BS EN/EN5	BS EN/EN55011 (CISPR11)		Class B		
		Radiated emission		BS EN/EN5	BS EN/EN55011 (CISPR11)		Class B		
AFETY &		Harmonic curre	nt	BS EN/EN6	BS EN/EN61000-3-2		Class A		
MC		Voltage flicker BS EN/EN61000-3-3							
Note. 7)		BS EN/EN60601-1-2							
1010.17	EMC IMMUNITY		Parameter		Standard		Test Level / Note		
		ESD		BS EN/EN6	BS EN/EN61000-4-2		Level 4, 15KV air ; Level 4, 8KV contac		
		RF field susceptibility		BS EN/EN6	BS EN/EN61000-4-3		Level 3, 10V/m(80MHz~2.7GHz)		
		EFT bursts		BS FN/FN6	BS EN/EN61000-4-4		Table 9, 9~28V/m(385MHz~5.78GHz) Level 3, 2KV		
		Surge susceptibility			BS EN/EN61000-4-5		Level 4, 2KV/Line-Line		
		Conducted susceptibility			BS EN/EN61000-4-6		Level 3, 10V		
		Magnetic field immunity			BS EN/EN61000-4-8		Level 4, 30A/m		
		Voltage dip, interruption BS EN/EN61000-4-11 100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods							
	MTBF	3334.3K hrs min. Telcordia SR-332 (Bellcore) ; 959.1K hrs min. MIL-HDBK-217F (25°C)							
THERS	DIMENSION (L*W*H)	76.2*50.8*24mm or 3" * 2" *0.945" inch							
O I I I L I I O	PACKING		0.11Kg; 120pcs/14.2Kg/0.94CUFT						
		y mentioned are measured at 230VAC input, rated load and 25 $^{\circ}$ C of ambient temperature.							

- 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.

NOTE

- 5. Touch current was measured from primary input to DC output.
- 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)
- % Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

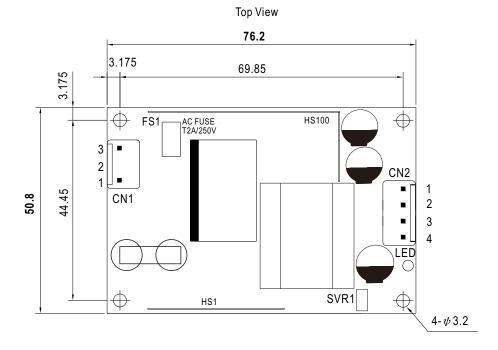


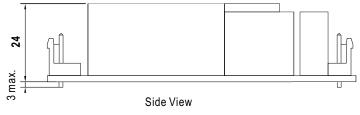




■ Mechanical Specification

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	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	
3	-V	or equivalent	or equivalent	
4	-V			

■ Installation Manual

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