









■ Features

- · 3"×2" 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 Ⅱ 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

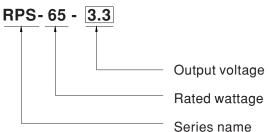
■ GTIN CODE

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 $100\,\mu$ 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.

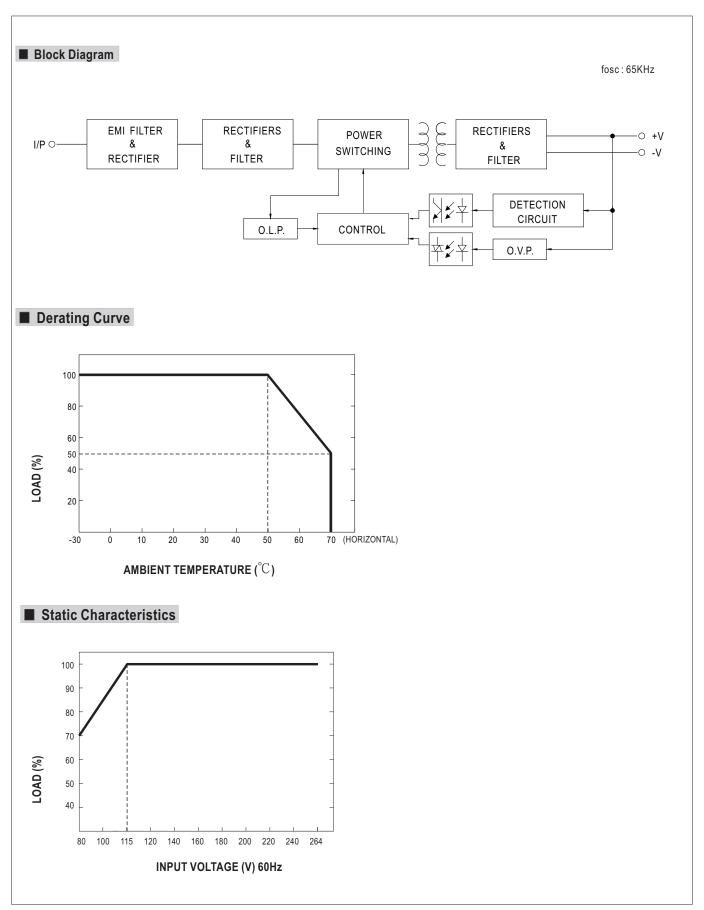
■ Model Encoding



SPECIFICATION

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				120mVp-p		-	-		
	, ,	2.9~3.6V	80mVp-p	80mVp-p		120mVp-p	120mVp-p	150mVp-p		
	VOLTAGE ADJ.RANGE		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								
	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				
	INRUSH CURRENT (Typ.)	COLD STAR 30A/115VAC 50A/230VAC								
	LEAKAGE CURRENT(max.) Note.5									
	ELAKAGE OUKKENT(Max.) Note:0	5 Touch current< 100#A/264VAC 115 ~ 150% rated output power								
PROTECTION	OVERLOAD			overs automatically	ofter fault een dit	ion io romovod				
							07.0.00.41/	55.0.04.01/		
PROTECTION	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	55.2~64.8V		
				ltage, re-power on t	o recover					
ENVIRONMENT	WORKING TEMP.	,	fer to "Derating Cui	rve")						
	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	IEC 60601-1:2005+A1+A2, TUV BS EN/ EN 60601-1:2006+A1+A12+A2, ANSI/AAMI ES60601-1:2005+A2 CAN/CSA C22.2 No. 60601-1:2014+A2, EAC TP TC 004 approved; Design refer to BS EN/EN60335-1(by request)								
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP								
	WITHSTAND VOLTAGE	I/P-O/P: 4KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M O	nms / 500VDC / 25°	°C / 70% RH						
		Parameter			Standard		Test Level / Note			
		Conducted emission			BS EN/EN55011 (CISPR11)		Class B			
	EMC EMISSION	Radiated emission			BS EN/EN55011 (CISPR11)		Class B			
		Harmonic current			BS EN/EN61000-3-2		Class A			
SAFETY &		Voltage flicker		BS EN/EN6	BS EN/EN61000-3-3					
EMC		BS EN/EN55035,BS EN/EN60601-1-2								
(Note. 7)		Parameter		Standard	Standard		Test Level / Note			
	EMC IMMUNITY	ESD		BS EN/EN6	BS EN/EN61000-4-2		Level 4, 15KV air ; Level 4, 8KV contact			
		RF field susceptibility		BS EN/EN6	BS EN/EN61000-4-3		vel 3, 10V/m(80MHz	,		
		. ,					Table 9, 9~28V/m(385MHz~5.78GHz)			
		EFT bursts			BS EN/EN61000-4-4		Level 3, 2KV Level 4, 2KV/Line-Line			
		Surge susceptibility Conducted augmentibility			BS EN/EN61000-4-5					
		Conducted susceptibility			BS EN/EN61000-4-6		Level 3, 10V Level 4, 30A/m			
		Magnetic field immunity Voltage dip, interruption		DS EIN/EING	BS EN/EN61000-4-8 BS EN/EN61000-4-11		100% dip 1 periods, 30% dip 25 periods,			
				BS EN/EN6			100% interruptions 250 periods			
OTHERS	MTBF	3334.3K hrs min. Telcordia SR-332 (Bellcore) ; 959.1K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION (L*W*H)	76.2*50.8*24mm or 3" * 2" *0.945" inch								
	PACKING	0.11Kg; 120pcs/14.2Kg/0.94CUFT								
	2. Ripple & noise are measure 3. Tolerance : includes set up to	If y mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. and at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. tolerance, line regulation and load regulation. Inder low input voltages. Please check the derating curve for more details. The primary input to DC output. The primary input to DC output. The final equipment input to DC output. The final equipment must be re-confirmed that so a component which will be installed into a final equipment. The final equipment must be re-confirmed that so For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." The supplies of the primary input to DC output. The final equipment must be re-confirmed that so For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." The primary input to DC output. The final equipment must be re-confirmed that so For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." The primary input to DC output.								

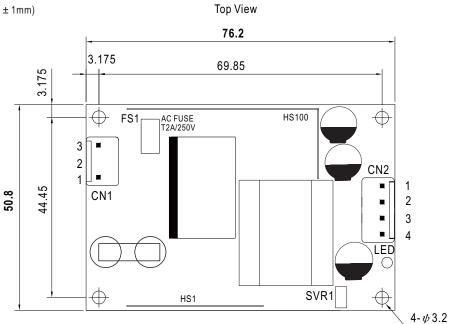


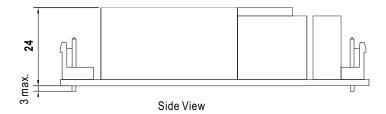




■ Mechanical Specification

(Unit: mm , tolerance ± 1mm)





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 oquivalent		

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