























■ 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 ${\rm I\hspace{-.1em}I}$ 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

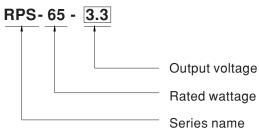
Applications

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

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 µA. 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



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SPECIFICATION

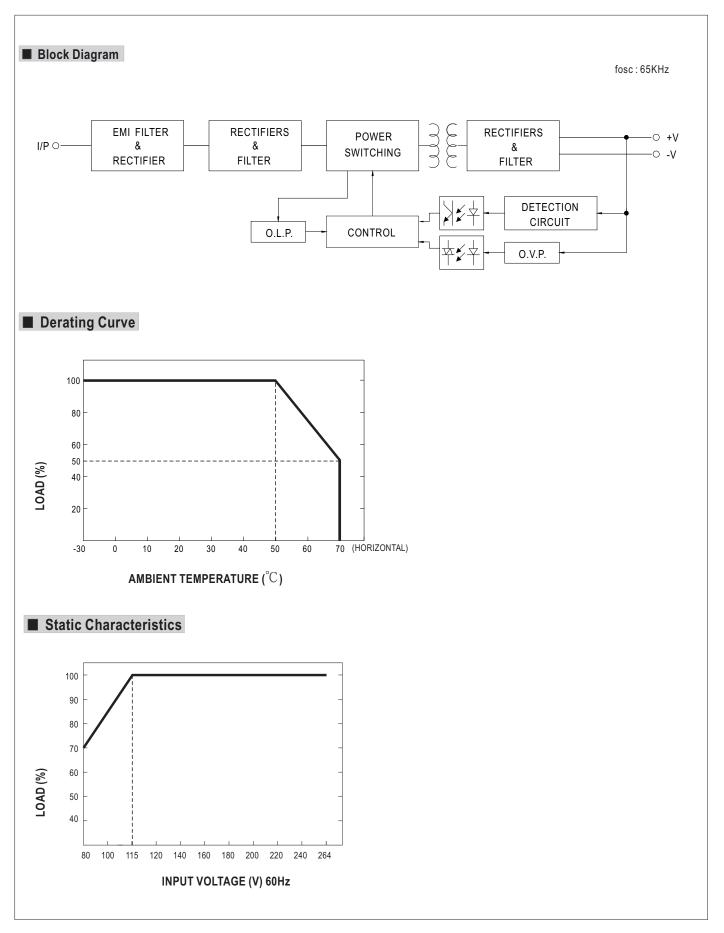
DC VOLTAGE RATED CURRENT CURRENT RANGE	3.3V 10A	5V	7.5V	12V	15V	24V		
	104	-			100	1 24V	48V	
CURRENT RANGE		10A	8A	5.42A	4.34A	2.71A	1.36A	
001111211111011	0 ~ 11A	0 ~ 11A	0 ~ 8.8A	0 ~ 5.96A	0 ~ 4.77A	0 ~ 2.98A	0 ~ 1.49A	
RATED POWER	33W	50W	60W	65W	65.1W	65W	65.3W	
-	36.3W	55W	66W	71.5W	71.6W	71.5W	71.5W	
PEAK LOAD(10sec.)								
RIPPLE & NOISE (max.) Note.2		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	45.6~52.8V	
VOLTAGE TOLERANCE Note.3		±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
			1 111			0.070	±0.5%	
					±1.0%	<u> </u> ±1.0%	±1.0%	
(, , ,								
FREQUENCY RANGE	47 ~ 63Hz							
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.5	Touch current< 100µA/264VAC							
OVERLOAD	115 ~ 150% rated output power							
OVERLOAD	Protection type:	Hiccup mode, reco	overs automaticall	after fault condit	on is removed			
0//50 //01 74 05	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	
OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover							
WORKING TEMP.								
WORKING HUMIDITY	· · · · · · · · · · · · · · · · · · ·							
STORAGE TEMP HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing							
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-								
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 Test 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		
		t						
	Voltage flicker BS EN/EN61000-3-3							
EMC IMMUNITY	,							
						Level 4, 15KV air ; Level 4, 8KV contact		
						Level 3, 10V/m(80MHz~2.7GHz)		
	RF field susceptibility		BS EN/EN	BS EN/EN61000-4-3		Table 9, 9~28V/m(385MHz~5.78GHz)		
	EFT bursts		BS EN/EN6	BS EN/EN61000-4-4		Level 3, 2KV		
	Surge susceptibility			BS EN/EN61000-4-5		Level 4, 2KV/Line-Line		
		, ,		BS EN/EN61000-4-6		Level 3, 10V		
	Magnetic field im	Magnetic field immunity BS EN/EN61000-4-8						
	Voltage dip, inter	ruption	BS EN/EN6	1000-4-11				
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							
 Ripple & noise are measure Tolerance: includes set up t Derating may be needed un Touch current was measured The ambient temperature de The power supply is consider it still meets EMC directives. (as available on http://www.r 	ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 \(\mu \) f & 47 \(\mu \) f parallel capacitor. up tolerance, line regulation and load regulation. under low input voltages. Please check the derating curve for more details. ured from primary input to DC output. e derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f sidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that ves. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." ww.meanwell.com)							
	FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT(max.) Note.5 OVERLOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION OPERATING ALTITUDE Note.6 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC EMISSION MTBF DIMENSION (L*W*H) PACKING 1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up the set of the s	DOAD REGULATION	LOAD REGULATION	DAD REGULATION	LOAD REGULATION	ACCEPTION Line Li	ACCURRENT (Typ.) 20ms 22.0% ±2.0% ±2.0% ±2.0% ±1.0% ±1.0% ±1.0%	











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■ Mechanical Specification Case No. Unit:mm Top View 76.2 3.175 69.85 \oplus \oplus AC FUSE T2A/250V FS1 HS100 3 2 CN2 CN1 2 3 LED SVR1 \bigoplus HS1 $4-\psi 3.2$ 24

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

Pin No.	Assignment	Mating Housing	Terminal	
1	AC/N	ICTVIID	ICT CV/II 24T D4 4	
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent	
3	AC/L	or oquivaloni	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 or equivalent	
3	-V	or equivalent		
4	-V			

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Side View





