























Features

- 5"×3" 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
- 75W convection,100W force air
- EMI Class B for Class I configuration
- No load power consumption<0.75W
- · Remote sense functiom
- Protections: Short circuit / Overload / Over voltage
- Lifetime > 80K hours
- Operating altitude up to 3000 meters
- 3 years warranty

Description



Applications

· Hemodialysis machine

· Sleep apnea devices

GTIN CODE

Medical computer monitors

Oral irrigator

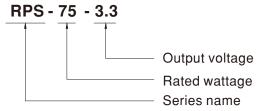




MW Search: https://www.meanwell.com/serviceGTIN.aspx

RPS-75 is a 75W highly reliable green PCB type medical power supply with a high power density on the 5" by 3" footprint. It accepts 90~264VAC input and offers various output voltages between 3.3V and 48V. The working efficiency is up to 86% and the extremely low no load power consumption is down below 0.75W. RPS-75 is able to be used for Class I (with FG) system design. The extremely low leakage current is less than 150 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

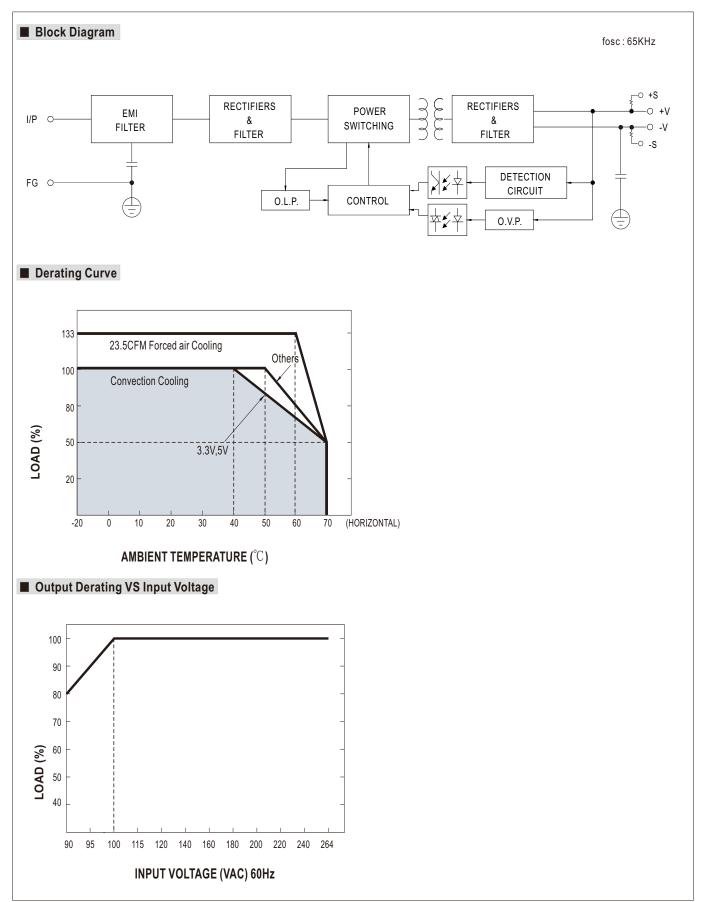




SPECIFICATION

MODEL		RPS-75-3.3	RPS-75-5	RPS-75-12	RPS-75-15	RPS-75-24	RPS-75-36	RPS-75-48
	DC VOLTAGE	3.3V	5V	12V	15V	24V	36V	48V
	RATED CURRENT	15A	14A	6.3A	5A	3.2A	2.1A	1.6A
	CURRENT RANGE	0 ~ 20A	0 ~ 18.7A	0 ~ 8.3A	0 ~ 6.7A	0 ~ 4.2A	0 ~ 2.8A	0 ~ 2.1A
	RATED POWER	49.5W	70W	75.6W	75W	76.8W	75.6W	76.8W
	PEAK LOAD (23.5CFM)	66W	93.5W	99.6W	100.5W	100.8W	100.8W	100.8W
	RIPPLE & NOISE (max.) Note.2		60mVp-p	60mVp-p	60mVp-p	100mVp-p	100mVp-p	100mVp-p
OUTPUT	VOLTAGE ADJ. RANGE	2.9 ~ 3.6V	4.75 ~ 5.5V	11.4 ~ 13.2V	13.5 ~ 16.5V	22.8 ~ 27.6V	34.2 ~ 39.6V	45.6 ~ 52.8V
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.5%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	500ms, 30ms/230	,	30ms/115VAC at fu		1.070	= 1.070	= 1.070
	HOLD UP TIME (Typ.)	90ms/230VAC 20ms/115VAC at full load						
	VOLTAGE RANGE	90 ~ 264VAC 127 ~370VDC						
	FREQUENCY RANGE		47 ~ 63Hz					
NPUT	EFFICIENCY(Typ.)		78%	82%	83%	85%	86%	86%
	AC CURRENT (Typ.)	1.5A/115VAC 1A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 50A/230VAC						
	LEAKAGE CURRENT(max.) Note.4	Earth leakage current < 150 μA/264VAC , Touch current < 100 μA/264VAC						
	OVERLOAD	140 ~ 180% rated						
PROTECTION			Hiccup mode, recov		1			
	OVER VOLTAGE	3.8 ~ 4.5V	5.7 ~ 6.8V	13.8 ~ 16.2V	17.2 ~ 20.3V	27.6 ~ 32.4V	41.4 ~ 48.6V	55.2 ~ 64.8V
	OVERVOLIAGE	Protection type : S	Shut down o/p volta	age, re-power to red	cover			
	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	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.5							
	OAFETY OTANDARDO	IEC60601-1, TUV BS EN/EN60601-1, EAC TP TC 004,UL ANSI / AAMI ES60601-1, CAN/CSA-C22.2 No. 60601-1:14 - Edition 3 approved; Design refer to BS EN/EN60335-1						
	SAFETY STANDARDS							
	ISOLATION LEVEL	Primary-Secondary:2xMOPP, Primary-Earth:1xMOPP						
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
		Parameter		Standard		Te	est Level / Note	
		Conducted emiss	ion	BS EN/EN	55011 (CISPR11)	CI	ass B	
	EMC EMISSION	Radiated emissio	n	BS EN/EN	55011 (CISPR11)	CI	ass B	
SAFETY &		Harmonic curren	t	BS EN/EN	61000-3-2	CI	ass A	
EMC		Voltage flicker		BS EN/EN	61000-3-3		·	
(Note 7)	EMC IMMUNITY	BS EN/EN60601-1-2						
		Parameter		Standard		Te	est Level / Note	
		ESD BS EN/EN61000-4-2		l e	Level 4, 15KV air ; Level 4, 8KV contact			
							Level 3, 10V/m(80MHz~2.7GHz)	
		RF field susceptibility		BS EN/EN61000-4-3			Table 9, 9~28V/m(385MHz~5.78GHz)	
		EFT bursts		BS EN/EN	61000-4-4	Le	vel 3, 2KV	•
		Surge susceptibility		BS EN/EN	BS EN/EN61000-4-5		Level 4, 4KV/Line-FG; 2KV/Line-Line	
		Conducted susceptibility		BS EN/EN	BS EN/EN61000-4-6		Level 3, 10V	
		,		vel 4, 30A/m	•			
		Voltage dip, inter	,		61000-4-11	10	100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods	
	MTBF	2837.6K hrs min.	Telcordia SR-33	32 (Bellcore) ; 446.8	BK hrs min. MIL-	HDBK-217F (25°	°C)	
OTHERS	DIMENSION (L*W*H)	127*76.2*31mm or 5" * 3" *1.22" inch						
	PACKING	0.26Kg; 63pcs/16.3Kg/1.28CUFT						
NOTE	Ripple & noise are measure Tolerance : includes set up Touch current was measure The ambient temperature d Heat Sink HS1,HS2,HS3 ca The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p (as available on http://www.p.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µf & 47 µf parallel capacitor. to tolerance, line regulation and load regulation. red from primary input to DC output. derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ran not be shorted. dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on late with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies."						
	Product Liability Disclaimer	: For detailed info	ormation, please re	erer to nttps://www.	meanwell.com/ser	viceDisclaimer.a		PS-75-SPEC 2022-03-







■ Mechanical Specification Unit:mm Top View 63.5 23.5CFM min. 15cm Air flow direction +M1 HS3 CN2 2 3 4 5 6 7 8 HS1 CN1 76.2 HS2 1 CN3 AC FUSE T2.5/250V LED1 FS2 FS1 115.8 5.6 127 3 Side View

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

Pin No.	Assignment	Mating Housing	Terminal	
1	AC/N	ICTVIID	ICT CV/II OAT DA A	
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent	
3	AC/L	3. 342.7410111	or oquivalone	

DC Output Connector (CN2): JST B8P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal	
1,2,3,4	+V	JST VHR	JST SVH-21T-P1.1	
5,6,7,8	-V	or equivalent	or equivalent	

 $\stackrel{\perp}{=}$: Grounding Required

1.HS1,HS2,HS3 cannot be shorted. 2.M1 is safety ground. For better EMC performance,Please secure an electrical connection between M1,M2 and chassis grounding.

■ Installation Manual

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

Remote Sense(CN3): JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	RS+	JST XHP	JST SXH-001T-P0.6
2	RS-	or equivalent	or equivalent