





















Features

- · 5"×3" compact size
- · Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1 and IEC/BS EN/EN60601-1
- · Suitable for BF application with appropriate system consideration
- Free air convection for rated power and 23.5CFM forced air convection for peak load
- EMI class B for class I configuration
- · Extremely low leakage current
- · Protections: Short circuit / Overload / Over voltage
- · Lifetime > 140K hours
- · 3 years warranty

Applications

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

GTIN CODE

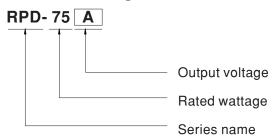
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

RPD-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 dual output voltages .

RPD-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.

■ Model Encoding



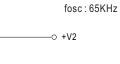
75W Reliable Dual Output Medical Grade

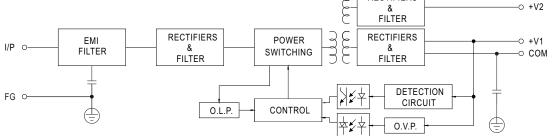
SPECIFICATION

MODEL		RPD-75A		RPD-75B			
	OUTPUT NUMBER	CH1	CH2	CH1	CH2		
ОИТРИТ	DC VOLTAGE	5V	12V	5V	24V		
	RATED CURRENT	7A	3A	5A	2A		
	CURRENT RANGE	1 ~ 9.5A	0.3 ~ 4A	1 ~ 6.8A	0.2 ~ 2.7A		
	RATED POWER	71W	71W		73W		
	PEAK LOAD (23.5CFM)	95.5W		98.8W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	120mVp-p		
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V			
	VOLTAGE TOLERANCE Note.3	±2.0%	$\pm 6.0\%$	±2.0%	±6.0%		
	LINE REGULATION	±0.5%	$\pm 1.0\%$	±0.5%	±1.0%		
	LOAD REGULATION	±1.5%	±3.0%	±1.5%	±3.0%		
	SETUP, RISE TIME	500ms, 30ms/230VAC 500r	ms, 30ms/115VAC at full load				
	HOLD UP TIME (Typ.)	90ms/230VAC 20ms/115VAC at full load					
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
NPUT	EFFICIENCY (Typ.)	77% 79%					
INF O I	AC CURRENT (Typ.)	1.5A/115VAC 1A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC	50A/230VAC				
	LEAKAGE CURRENT Note.4	Earth leakage current < 150 μ A/264VAC , Touch current < 100 μ A/264VAC					
	OVERLOAD	140 ~ 180% rated output power					
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION	-VV	Ch1: 5.7 ~ 6.8V					
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover					
	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-c	condensing				
	TEMP. COEFFICIENT	±0.03%/C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, p	period for 60min. each along X	, Y, Z axes			
	OPERATING ALTITUDE Note.5	3000 meters	•				
	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, 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 C	hms / 500VDC / 25° C/ 70% RF	1			
		Parameter	Standard		Test Level / Note		
	EMC EMISSION	Conducted emission	BS EN/EN55011 ((CISPR11)	Class B		
		Radiated emission	BS EN/EN55011 (CISPR11)	Class B		
SAFETY &		Harmonic current	BS EN/EN61000-	-3-2	Class A		
EMC		Voltage flicker	BS EN/EN61000-	-3-3			
(Note 8)	EMC IMMUNITY	BS EN/EN55035, BS EN/EN6	60601-1-2				
,		Parameter	Standard		Test Level / Note		
		ESD	BS EN/EN61000-	4-2	Level 4, 15KV air ; Level 4, 8KV conta		
		DE field acceptability	BS EN/EN61000-	4.2	Level 3, 10V/m(80MHz~2.7GHz)		
		RF field susceptibility	DO EIN/EINO IUUU-	·4-3	Table 9, 9~28V/m(385MHz~5.78GHz)		
		EFT bursts	BS EN/EN61000-	4-4	Level 3, 2KV		
		Surge susceptibility	BS EN/EN61000-	4-5	Level 4, 4KV/Line-FG; 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	2575.6K hrs min. Telcordia SR-332 (Bellcore) ; 569.9K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION (L*W*H)	127*76.2*31mm or 5" * 3" *1.22"					
	PACKING	0.25Kg; 63pcs/17.3Kg/1.28CUFT					
NOTE	Ripple & noise are measure Tolerance : includes set up 1 Touch current was measure The ambient temperature de Length of set up time is mea Heat Sink HS1,HS2,HS3 ca The power supply is conside	Illy mentioned are measured at 230VAC input, rated load and 25° C of ambient temperature. Bed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. Into tolerance, line regulation and load regulation. Bed from primary input to DC output. Berating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Beasured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.					



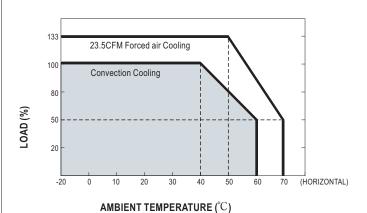
■ Block Diagram



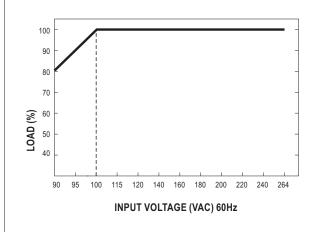


RECTIFIERS

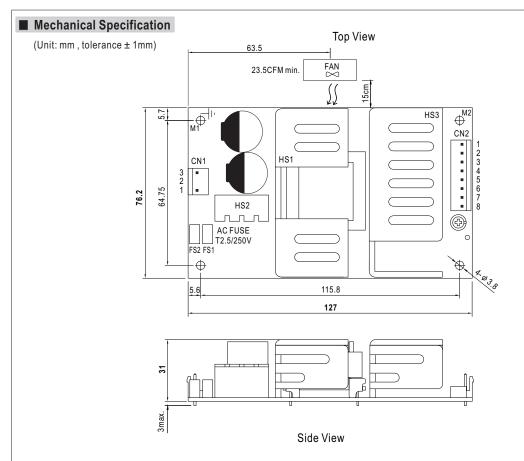
■ Derating Curve



■ Output Derating VS Input Voltage







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

Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	ICTVIID	JST SVH-21T-P1.1 or equivalent
2	No Pin	JST VHR or equivalent	
3	AC/L		

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

Pin No.	Assignment	Mating Housing	Terminal	
1,2	V1			
3,4,5	COM	JST VHR	JST SVH-21T-P1.1 or equivalent	
6,7	V2	or equivalent		
8	NC			

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