















■ Features

- 5"×3" compact size
- Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- 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
- 3 years warranty

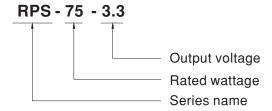
Applications

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

Description

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 $90\sim264$ VAC 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 $150\,\mu$ A. In addition, it conforms to international medical regulations (2*MOPP) and EMC EN55011, perfectly fitting all kinds of BF rated "patient contact" medical system equipment.

■ Model Encoding

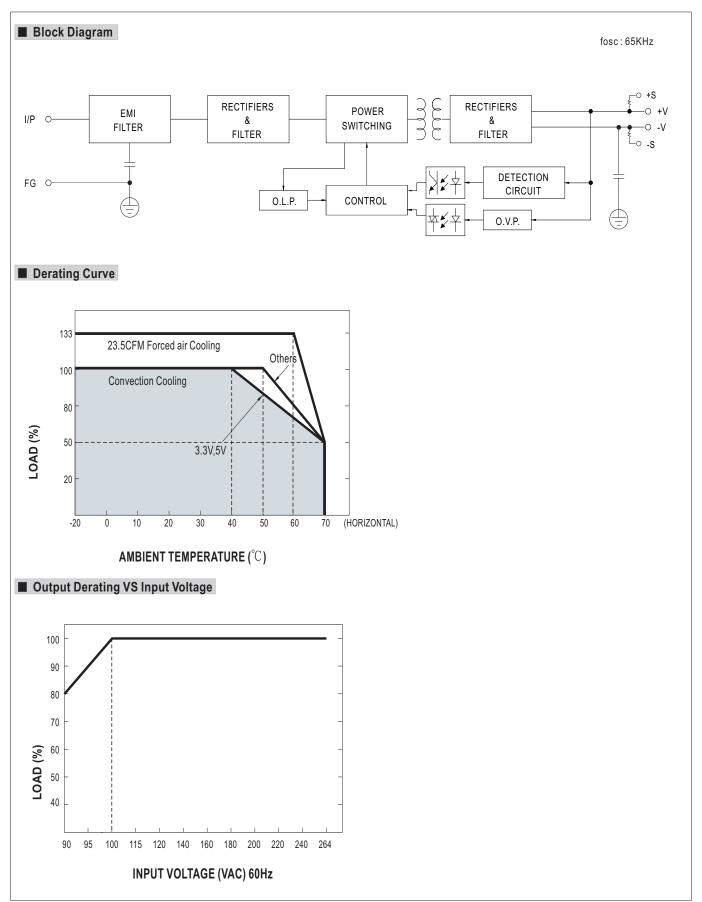




SPECIFICATION

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	60mVp-p	100mVp-p	100mVp-p	100mVp-p	
DUTPUT	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			_	111171	_ 1.0 /6	1.070	1.070	
	HOLD UP TIME (Typ.)	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load							
	VOLTAGE RANGE	90ms/230VAC 20ms/115VAC at full load							
		90 ~ 264VAC 127 ~370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
NPUT	EFFICIENCY(Typ.)		73% 78% 82% 83% 85% 86% 86%						
	AC CURRENT (Typ.)	1.5A/115VAC	1A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 2		50A/230VAC					
	LEAKAGE CURRENT(max.) Note.4	Earth leakage c	current < 150 μA/26	64VAC, Touch curre	ent < 100 μA/264VA	ıC			
	OVERLOAD		ed output power						
PROTECTION		Protection type	: Hiccup mode, re	covers automaticall	y after fault condition	on is removed.			
ROTECTION	OVED VOLTACE	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	
	OVER VOLTAGE	Protection type	: Shut down o/p vo	oltage, re-power to	recover				
	WORKING TEMP.	-20 ~ +70°C (Re	efer to "Derating C	Curve")					
	WORKING HUMIDITY	20 ~ 90% RH no	on-condensing	,					
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C. 10) ~ 95% RH non-co	ondensing					
	TEMP. COEFFICIENT	-40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%°C (0 ~ 50°C)							
	VIBRATION			eriod for 60min. eac	h along Y V 7 avec	2			
	OPERATING ALTITUDE Note.5		r Torriir./ Tcycle, pe	enou for domin. eac	II along A, T, Z axes	5			
	SAFETY STANDARDS		11\/ EN60601 1 1	III ANICI/AAMI E	CCCCCO 1 CANIC	26 V C22 2 No. 60	0601 1:14 Edition	2 approved:	
	SAFETT STANDARDS	IEC60601-1, TUV EN60601-1, UL ANSI / AAMI ES60601-1, CAN/CSA-C22.2 No. 60601-1:14 - Edition 3 approved;							
	IOOL ATION LEVEL	Design refer to EN60335-1 Primary-Secondary:2xMOPP, Primary-Earth:1xMOPP							
	WITHSTAND VOLTAGE	•		O/P-FG:1.5KVAC					
	ISOLATION RESISTANCE	,	, O/P-FG: 100M Of	nms / 500VDC / 25°0					
		Parameter			Standard		Test Level / Note		
	EMC EMISSION	Conducted emission			EN55011 (CISPR11)		Class B		
DAFETY 0		Radiated emission		EN55011 (CISPR11)			Class B		
SAFETY &		Harmonic current		EN6100	EN61000-3-2		Class A		
EMC		Voltage flicker EN61000-3-3							
(Note 7)	EMC IMMUNITY	EN60601-1-2							
		Parameter		Standar	Standard		Test Level / Note		
		ESD		EN6100	EN61000-4-2			Level 4, 15KV air ; Level 4, 8KV conta	
		RF field susceptibility		EN61000-4-3		Le	Level 3, 10V/m		
		EFT bursts		EN61000-4-4		Le	Level 3, 2KV		
		Surge susceptibility		EN61000-4-5			Level 4, 4KV/Line-FG; 2KV/Line-Line		
		Conducted susceptibility		EN61000-4-6			Level 3, 10V		
		Magnetic field	, ,	EN61000-4-8					
		Magnetic neid	illillullity	LINOTOO	EINU 1000-4-0		Level 4, 30A/m		
		Voltage dip, interruption EN61000-4-11				100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods			
	MTBF	116 9K hrs min	MII LIDDK 21	7E (25°C)	2)		100 % litterruptions 250 perious		
OTHERS		446.8K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION (L*W*H) PACKING	127*76.2*31mm or 5" * 3" *1.22" inch 0.26Kg; 63pcs/16.3Kg/1.35CUFT							
NOTE	1. All parameters NOT specia 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Touch current was measure 5. The ambient temperature d 6. Heat Sink HS1,HS2,HS3 ca 7. The power supply is consider a 360mm*360mm metal pla	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 5°C/1000m is needed for operating altitude greater than 2000m (6500ft).							







■ Mechanical Specification Unit:mm Top View 23.5CFM min. 15cm_ Air flow direction †M1 HS3 CN2 2 3 4 5 6 7 8 HS1 CN1 64.75 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	
ĺ	1	AC/N	JST VHR or equivalent	ICT CV/II OAT DA A	
ĺ	2	No Pin		JST SVH-21T-P1.1 or equivalent	
ĺ	3	AC/L			

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