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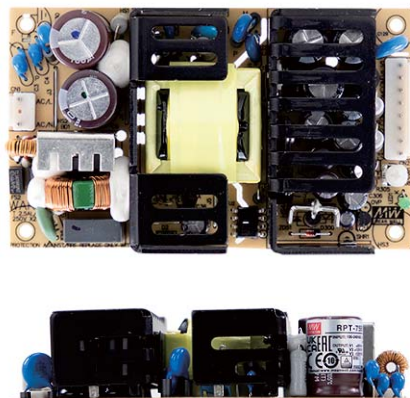
RPT-75D

<https://www.mean-well.ru/store/RPT-75D/>



72W Reliable Triple Output Medical Grade

RPT-75 series



User's Manual



ANSI/AAMI ES60601-1 BS EN/EN60601-1 IEC60601-1 TPTC004



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
- 72W convection, 100W force air
- 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>

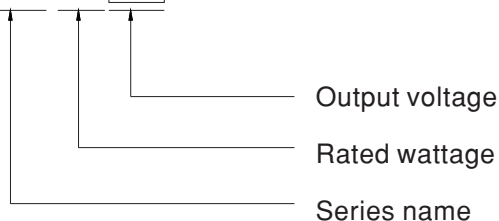
Description

RPT-75 is a 72W highly reliable PCB type medical power supply with a high power density on the 5" by 3" footprint. It accepts 90~264VAC input and offers triple output voltages .

RPT-75 is able to be used for Class I system design. The extremely low leakage current is less than 150 μ A. In addition, it conforms to international medical regulations (2*MOPP) and EMC BS EN/EN55011.

Model Encoding

RPT - 75 A





SPECIFICATION

MODEL		RPT-75A			RPT-75B			RPT-75C		
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V
	RATED CURRENT	6A	3A	0.5A	6A	3A	0.5A	6A	2.3A	0.5A
	CURRENT RANGE	0.6 ~ 8A	0.2 ~ 4A	0.1 ~ 1A	0.6 ~ 8A	0.2 ~ 4A	0.1 ~ 1A	0.6 ~ 8A	0.1 ~ 3A	0.1 ~ 1A
	RATED POWER	68.5W			72W			72W		
	PEAK LOAD (23.5CFM)	93W			100W			100W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	80mVp-p	120mVp-p	80mVp-p	80mVp-p	120mVp-p	80mVp-p
	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5V								
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±5.0%	±2.0%	±6.0%	±5.0%	±2.0%	±8.0%	±5.0%
	LINE REGULATION	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%
	LOAD REGULATION	±1.5%	±3.0%	±1.0%	±1.5%	±3.0%	±1.0%	±1.5%	±3.0%	±1.0%
	SETUP, RISE TIME	500ms, 30ms/230VAC			500ms, 30ms/115VAC at full load					
HOLD UP TIME (Typ.)	90ms/230VAC			20ms/115VAC at full load						
INPUT	VOLTAGE RANGE	90 ~ 264VAC		127 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY(Typ.)	76%				77%		77%		
	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								
PROTECTION	OVERLOAD	140 ~ 180% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	Ch1: 5.7 ~ 6.8V Protection type : Shut down o/p voltage, re-power on to recover								
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 45℃)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	OPERATING ALTITUDE Note.5	3000 meters								
SAFETY & EMC (Note 8)	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 Ohms / 500VDC / 25℃/ 70% RH								
	EMC EMISSION	Parameter					Standard	Test Level / Note		
		Conducted emission					BS EN/EN55011 (CISPR11)	Class B		
		Radiated emission					BS EN/EN55011 (CISPR11)	Class B		
		Harmonic current					BS EN/EN61000-3-2	Class A		
		Voltage flicker					BS EN/EN61000-3-3	-----		
	EMC IMMUNITY	BS EN/EN55035,BS EN/EN60601-1-2								
		Parameter					Standard	Test Level / Note		
		ESD					BS EN/EN61000-4-2	Level 4, 15KV air ; Level 4, 8KV contact		
		RF field susceptibility					BS EN/EN61000-4-3	Level 3, 10V/m(80MHz~2.7GHz) 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			
OTHERS	MTBF	2305.8K hrs min. Telcordia SR-332 (Bellcore) ; 521.3K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION (L*W*H)	127*76.2*31mm or 5" * 3" *1.22" inch								
	PACKING	0.25Kg; 63pcs/17.3Kg/1.28CUFT								

SPECIFICATION

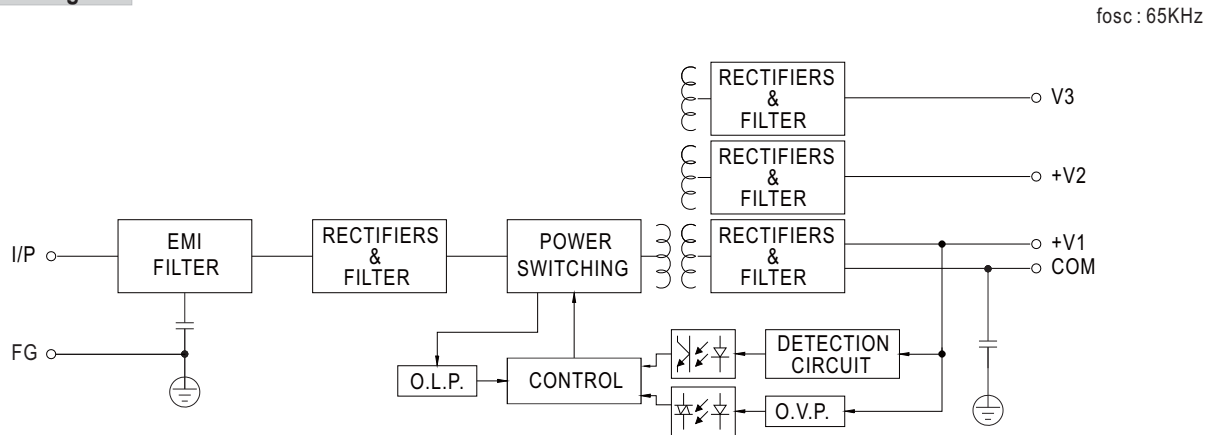
MODEL		RPT-75D			RPT-7503			
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	
	DC VOLTAGE	5V	24V	12V	3.3V	5V	12V	
	RATED CURRENT	5A	1.5A	1A	6A	6A	1A	
	CURRENT RANGE	0.6 ~ 7A	0.1 ~ 2A	0.1 ~ 1A	0.7 ~ 7A	0 ~ 8A	0 ~ 1.5A	
	RATED POWER	73W			61.8W			
	PEAK LOAD (23.5CFM)	95W			81.1W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	200mVp-p	120mVp-p	80mVp-p	120mVp-p	120mVp-p	
	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5V			-----			
	VOLTAGE TOLERANCE Note.3	± 2.0%	± 8.0%	± 8.0%	± 4.0%	± 6.0%	+10,-6%	
	LINE REGULATION	± 0.5%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.5%	
	LOAD REGULATION	± 1.5%	± 3.0%	± 3.0%	+3,-4%	+5,-4%	± 6.0%	
	SETUP, RISE TIME	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	90ms/230VAC 20ms/115VAC at full load						
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY(Typ.)	79%			74%			
	AC CURRENT (Typ.)	1.5A/115VAC 1A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 50A/230VAC						
	LEAKAGE CURRENT Note.4	Earth leakage current < 150μA/264VAC , Touch current < 100μA/264VAC						
PROTECTION	OVERLOAD	140 ~ 180% rated output power						
		Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	Ch1: 5.7 ~ 6.8V			Ch1: 3.8 ~ 4.5V			
		Protection type : Shut down o/p voltage, re-power on to recover						
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing						
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		ESD	BS EN/EN61000-4-2			Level 4, 15KV air ; Level 4, 8KV contact		
		RF field susceptibility	BS EN/EN61000-4-3			Level 3, 10V/m(80MHz~2.7GHz) 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		
		OTHERS	MTBF	2305.8K hrs min. Telcordia SR-332 (Bellcore) ; 521.3K hrs min. MIL-HDBK-217F (25℃)				
DIMENSION (L*W*H)			127*76.2*31mm or 5" * 3" *1.22" inch					
PACKING			0.25Kg; 63pcs/17.3Kg/1.28CUFT					

NOTE

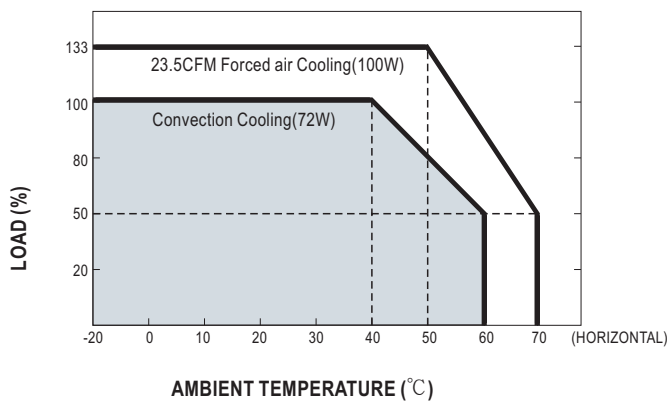
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance : includes set up tolerance, line regulation and load regulation.
- Touch current was measured from primary input to DC output.
- The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
- Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
- Heat Sink HS1,HS2,HS3 can not be shorted.
- The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
(as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)

※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

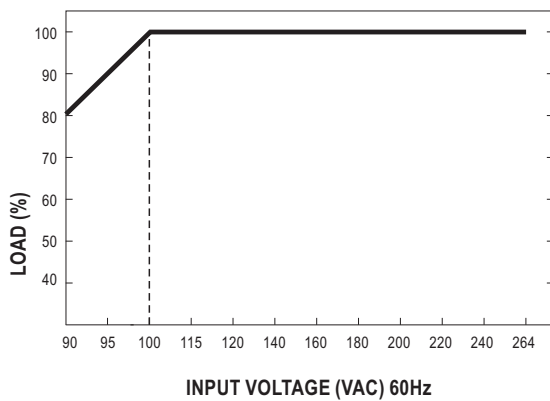
Block Diagram



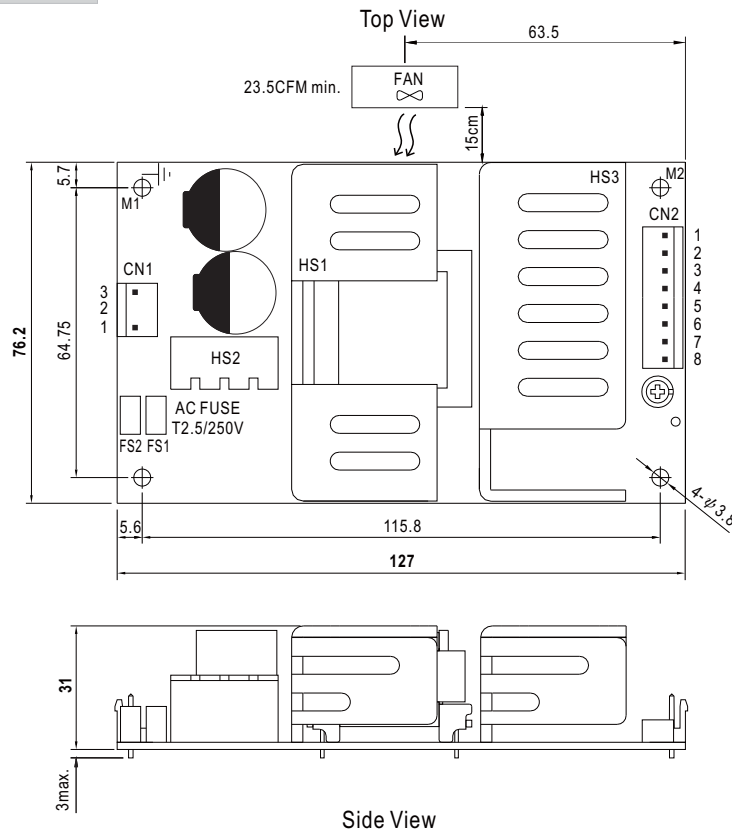
Derating Curve



Output Derating VS Input Voltage



Mechanical Specification



Unit:mm

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

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

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

Pin No.	Assignment	Mating Housing	Terminal
1,2	V1	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3,4,5	COM		
6,7	V2		
8	V3		

⏏ : 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>