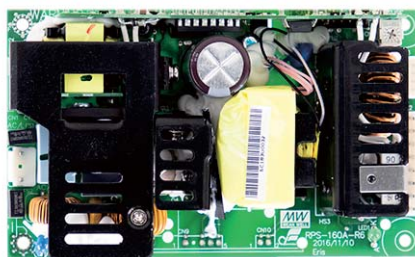




Наличие и актуальные цены на

RPS-160-15

<https://www.mean-well.ru/store/RPS-160-15/>



User's Manual



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



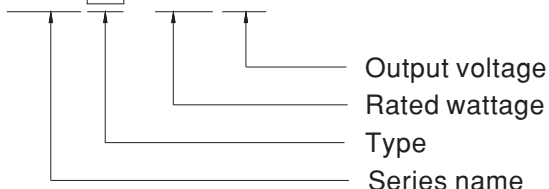
Features

- 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
- 110W convention, 160W force air
- EMI class B for class I configuration
- No load power consumption under 0.5W by PS-ON control (G model)
- 5Vdc standby output, Power Good, Power Fail ; Remote sense for 5~15V
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Operating altitude up to 3000 meters
- 3 years warranty

Description

RPS-160 is a 160W highly reliable green PCB type medical power supply with a high power density on a 5" by 3" footprint. It accepts 90~264VAC input and offers various models with the output voltages between 5V and 48V. The working efficiency is up to 88% and the extremely low no load power consumption is down below 0.5W. RPS-160 is able to be used for Class I (with FG) system design. The extremely low leakage current is less than 160 μ A. In addition, it conforms to the international medical regulations (2*MOPP) and EMC BS EN/EN55011, perfectly fitting all kinds of BF rated "patient contact" medical system equipment.

Model Encoding

RPS G - 160 - 5

Output voltage
Rated wattage
Type
Series name

Applications

- Oral irrigator
- Hemodialysis machine
- Medical monitors
- Sleep apnea devices
- Pumps machine

GTIN CODE

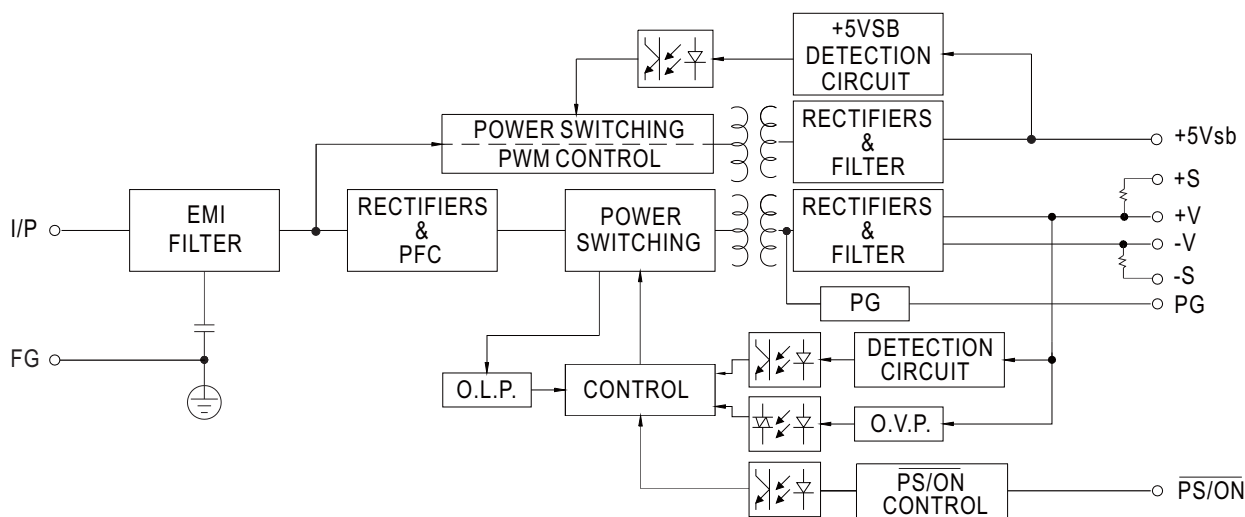
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

Type	Description	Note
Blank	Without 5Vsb	In stock
G	With 5Vsb & No load power consumption <0.5W	In stock

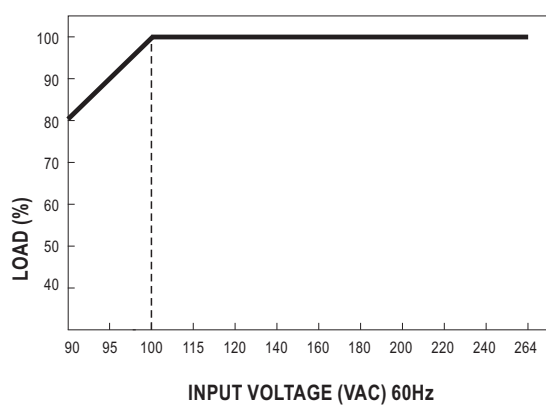
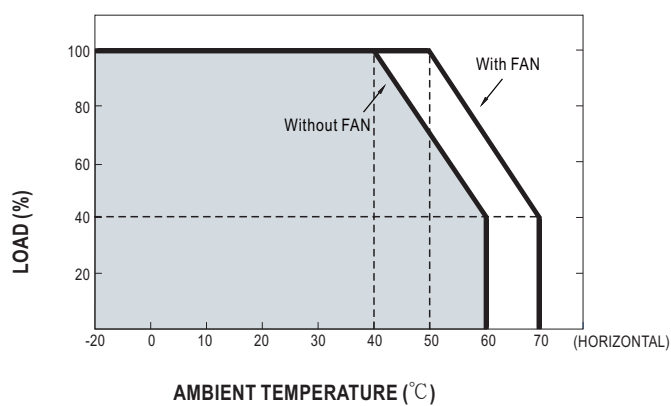
SPECIFICATION

MODEL		RPS□-160-5	RPS□-160-12	RPS□-160-15	RPS□-160-24	RPS□-160-48		
OUTPUT	DC VOLTAGE		5V	12V	15V	24V	48V	
	RATED CURRENT (20.5CFM)		30A	12.9A	10.3A	6.5A	3.25A	
	CURRENT	Convection	0 ~ 20A	0 ~ 9.1A	0 ~ 7.3A	0 ~ 4.6A	0 ~ 2.3A	
		20.5CFM	0 ~ 30A	0 ~ 12.9A	0 ~ 10.3A	0 ~ 6.5A	0 ~ 3.25A	
	RATED POWER	Convection Note.2	103W	112.2W	112.5W	113.4W	113.4W	
		20.5CFM Note.3	155W	159.8W	159.5W	161W	161W	
	RIPPLE & NOISE (max.) Note.4		80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE(main output)		4.5 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	22 ~ 27V	43.2 ~ 52.8V	
	VOLTAGE TOLERANCE Note.5		± 4.0%	± 3.0%	± 3.0%	± 2.0%	± 2.0%	
	LINE REGULATION		± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	
LOAD REGULATION		± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%		
SETUP, RISE TIME		1800ms, 30ms/230VAC 3500ms, 30ms/115VAC at full load						
HOLD UP TIME (Typ.)		20ms/115VAC 25ms/230VAC at full load						
INPUT	VOLTAGE RANGE Note.6		90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE		47 ~ 63Hz					
	POWER FACTOR (Typ.)		PF>0.93/230VAC PF>0.98/115VAC at full load					
	EFFICIENCY (Typ.)		86%	87%	87%	87%	88%	
	AC CURRENT (Typ.)		2A/115VAC 1.1A/230VAC					
	INRUSH CURRENT (Typ.)		COLD START 35A/115VAC 70A/230VAC					
	LEAKAGE CURRENT Note.7		Earth leakage current < 160μA/264VAC , Touch current < 100μA/264VAC					
PROTECTION	OVERLOAD		105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE		5.7 ~ 6.8V	13.8 ~ 16.2V	17.2 ~ 20.3V	27.6 ~ 32.4V	55.2 ~ 64.8V	
			Protection type : Shut down o/p voltage, re-power on to recover					
	OVER TEMPERATURE		TSW1: Shut down o/p voltage, recovers automatically after temperature goes down					
			TSW2: Shut down o/p voltage, re-power on to recover					
FUNCTION	5V STANDBY (G model)		5Vsb : 5V@0.6A without fan, 0.8A with fan 20.5CFM ; Tolerance ± 2%, ripple : 50mVp-p(max.)					
	PS-ON INPUT SIGNAL (G model)		Power on: PS-ON = "Hi" or " > 2 ~ 5V" ; Power off: PS-ON = "Low" or " < 0 ~ 0.5V"					
	POWER GOOD / POWER FAIL		500ms>PG>10ms PF>1ms					
	REMOTE SENSE		5 ~ 15V					
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 ~ 50℃)					
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
	OPERATING ALTITUDE Note.8		3000 meters					
SAFETY & EMC (Note 10)	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, Secondary-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		2082.3K hrs min. Telcordia SR-332 (Bellcore) ; 234.5K hrs min. MIL-HDBK-217F (25℃)					
	DIMENSION (L*W*H)		127*76.2*34.6mm or 5" * 3" * 1.36" inch					
	PACKING		0.33Kg; 36pcs/12.9Kg/0.96CUFT					

fosc :100KHz(5V)
70KHz(12~48V)

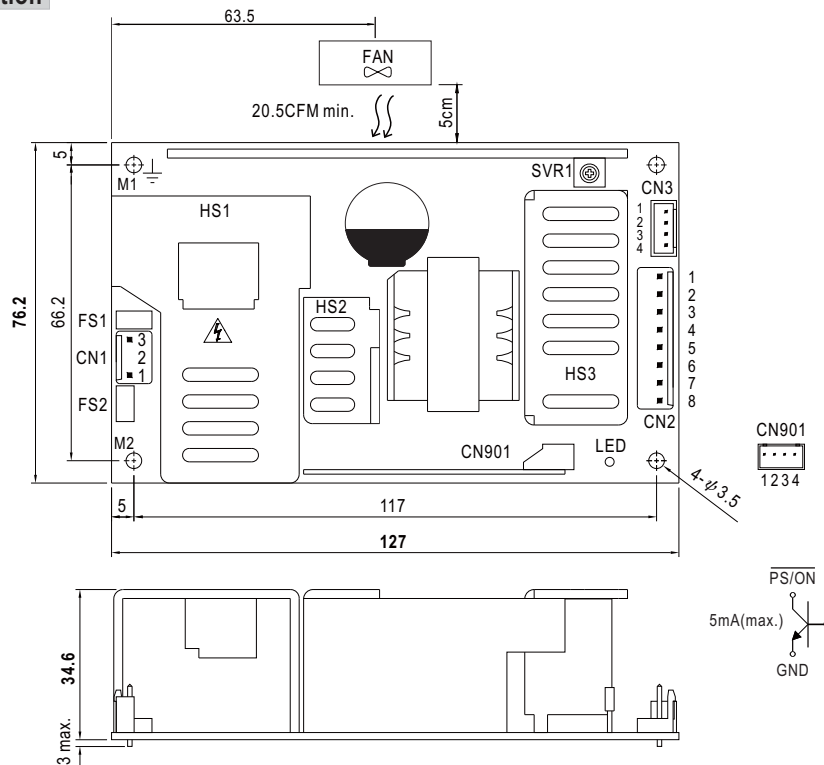


■ Output Derating VS Input Voltage



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		

Power Good Connector(CN3):JST B4B-XH or equivalent

Pin No.	Status	Mating Housing	Terminal
1	PG	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	GND		
3	-S		
4	+S		

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

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

5VSB Connector(CN901) : JST B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	PS/ON	JST XHP or equivalent	JST SXH-001T or equivalent
2,4	GND		
3	5VSB		

⏏ : 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>