



Size: 3.50in x 2.5in x 1.06in (89mm x 63.5mm x 27mm)

FEATURES

- Universal Input Range of 90~264VAC
- Switching Power Modules for PCB Mounting
- Fully Encapsulated Plastic Case
- Over Current, Over Voltage, and Short Circuit Protection
- Isolation Class II
- Regulated Outputs
- CE, CB, UL, and cUL Safety Approvals

DESCRIPTION

The PSMSC60 series of medical AC/DC power modules offers up to 60 watts of output power in a fully encapsulated 3.50" x 2.5" x 1.06" plastic case. This series consists of regulated single output models with a universal input range of 90~264VAC. Each model in this series features over current, over voltage, and short circuit protection, isolation class II and CE, CB, UL, and cUL safety approvals. Please call factory for order details.

	MODEL SELECTION TABLE							
Model Number	Input Voltage Range	Output Voltage	Output Current	Max. Ripple & Noise ⁽²⁾	Maximum Capacitive Load	Efficiency	Output Power	No Load Input Power
PSMSC60-5S	90~264VAC (120~370VDC)	5.1VDC	10,000mA	100mVp-p	10000µF	86%	51W	
PSMSC60-9S		9VDC	6666mA	100mVp-p	5000µF	87%	60W	
PSMSC60-12S		12VDC	5000mA	1% of Vout	5000µF	88%	60W	<0.3W
PSMSC60-15S		15VDC	4000mA	1% of Vout	4000µF	86%	60W	
PSMSC60-24S		24VDC	2500mA	1% of Vout	2000µF	87%	60W	

SPECIFICATIONS							
All specifications		nput Voltage, and Maximum Output Co		herwise not	ed.		
SPECIFICATION		e specifications based on technologica T CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS				- //-			
Input Voltage Range			90		264	VAC	
input voltage Kange			120		370	VDC	
Frequency			47		440	Hz	
Input Current	Full Load, 115VAC				1.5	Α	
input Current	Full Load, 230VAC			1	A		
Inrush Current (<2ms, Cold Start)	@115VAC			55	Α		
iniusii Current (<2ms, Cold Start)	@230VAC				95	A	
Leakage Current	@264VAC (Touch Current)			0.1	mA		
External Fuse (Recommended)	Slow Blow Type			3.15		Α	
OUTPUT SPECIFICATIONS							
Output Voltage				See	Table		
Voltage Accuracy				±2		%	
Line Regulation				0.5		%	
Load Regulation	1-100%	5V & 9V Models		1.5		%	
	1-10070	12V, 15V, & 24V Models		1			
Output Power				See Table			
Output Current				See Table			
Maximum Capacitive Load	@230VAC			See Table			
Ripple & Noise ⁽²⁾				See Table			
Hold-Up Time			10			mS.	
Temperature Coefficient				±0.05		%/°C	
PROTECTION							
Short Circuit Protection					Recovery		
Over Current Protection					Recovery		
Over Voltage Protection				Zener Did	de Clamp		
ENVIRONMENTAL SPECIFICATIONS	S						
Operating Temperature	With Derating		-40		+80	°C	
Storage Temperature			-40		+90	°C	
Max. Case Operating Temperature	Under 115VAC				73	°C	
1 0 1	Others			80	J		
Altitude	During Operation			5000		m	
Humidity					95	%RH	
Atmospheric Pressure			70		106	kPa	
MTBF	@25°C		200,000		400,000	Hours	



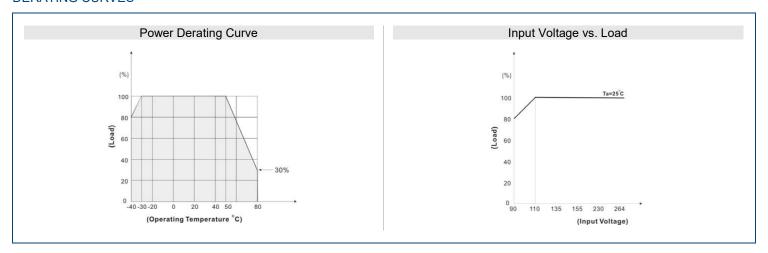
SPECIFICATIONS								
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.								
We reserve the right to change specifications based on technological advances.								
SPECIFICATION		TEST CONDITIONS	Min	Тур	Max	Unit		
GENERAL SPECIFICATIONS								
Efficiency	@230VAC				e Table			
Isolation Voltage				4000		VAC		
PHYSICAL SPECIFICATION	PHYSICAL SPECIFICATIONS							
Weight				9.17	oz (260g)			
_	Standard			3.50in x 2.5in x 1.06in				
Dimensions (L x W x H)				(89mm x 63.5mm x 27mm)				
Difficusions (E X VV X 11)	Screw Terminal		4.44in x 2.55in x 1.30in					
	Ociew Terminal			(112.9mm x 64.7mm x 33mm)				
Case Material			Plastic I	Resin (Flar	mmability to	UL 94V-0)		
Cooling ⁽³⁾				Free Air	r Convection	1		
SAFETY CHARACTERISTICS								
		UL 60950-1 ⁽⁸⁾						
	CAN/CSA C22.2 No. 60950-1-07							
	cUL/UL Standard:	ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10)						
Safety Approvals ⁽⁴⁾		CAN/CSA-C22.2 No. 60601-1 (2008)						
		2 x MOPP						
		IEC 60950-1:2005 (2 nd Edition) + Am 1:2009 + Am 2:2013						
	CB Standard:	IEC 60601-1:2005 (3 rd Edition) + CORR. 1 (2006) + CORR. 2						
		(2007) + AM1 (2012) or IEC 60601-1 (2012 Reprint)						
	2 x MOPP				TNEE04	1 Class D(5)		
EMC	Conducted and Radiate					1 Class B ⁽⁵⁾		
	EMS			E	N60601-1-2	4" Edition		

NOTES

- This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems, or other such applications which necessitate specific safety and regulatory standards other than the ones listed in this datasheet.
- 2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
- 3. Natural convection is about 20LFM but is not equal to still air (0 LFM).
- 4. Safety approvals cover frequency 47-63Hz.
- 5. Radiation Class A for screw terminal series.
- 6. It is recommended to add Varistor 14S471K at L/N input side in parallel.
- 7. A screw terminal is available for this series. To select this option, add "-A" to the end of model number. Ex. PSMSC60-12S-A
- 8. This product is Listed to applicable standards and requirements by UL.

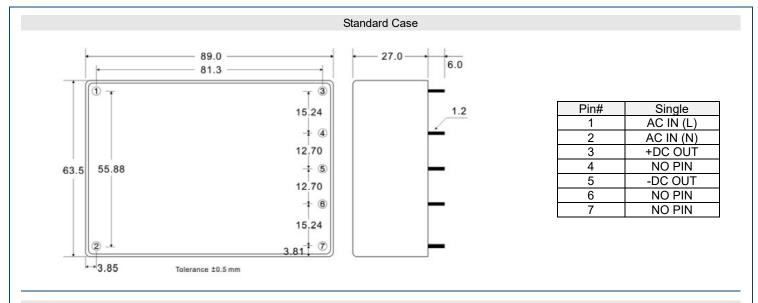
*Due to advances in technology, specifications subject to change without notice

DERATING CURVES -

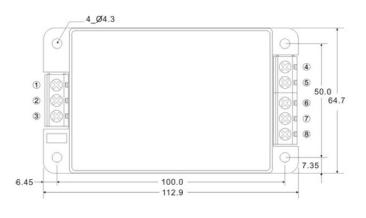




MECHANICAL DRAWINGS



SCREW TERMINAL ("-A" Suffix)



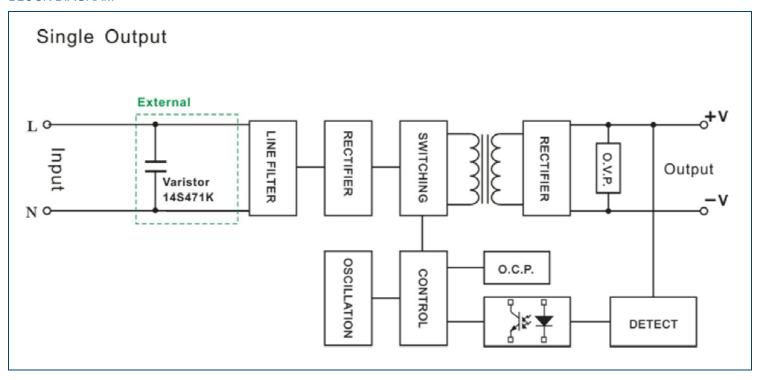


PIN#	Single		
1	NO CONNECT		
2	AC IN (L)		
3	AC IN (N)		
4	+DC OUT		
5	NO CONNET		
6	-DC OUT		
7	NO CONNECT		
8	NO CONNECT		





BLOCK DIAGRAM •



COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact Wall Industries for further information:

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