



Size: 2.07in x 1.08in x 0.93in (52.5mm x 27.5mm x 23.5mm)

SPECIFICATIONS

FEATURES

- 90~264VAC or 120-370VDC Input Isolation Class II
- Fully Encapsulated Plastic Case
- Switching Power Module for PCB Mountable
- Optional Screw Terminal Available ("-A" Suffix)
- Regulated Output
- Low Standby <0.1 W
- Low Ripple & Noise
- Over Power, Over Voltage, and Short Circuit Protection
- CE, CB, UL, and cUL Approvals

DESCRIPTION

The PSCZM20 series of medical AC/DC power supplies offers 20 watts of output power in a compact 2.07" x 1.08" x 0.93" fully encapsulated plastic case. This series consists of single output models with a universal input range of 90~264VAC (or 120~370VDC). Each model in this series has low ripple & noise, low standby, and over power, over voltage, and short circuit protection. This series has CE, CB, UL, and cUL approvals.

MODEL SELECTION TABLE							
Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise ⁽²⁾	Maximum Capacitive Load	Efficiency	Output Power
PSCZM20-12S	90~264VAC	12V	1667mA	150mVp-p	1500μF	83%	20W
PSCZM20-24S	(120~370VDC)	24V	833mA	240mVp-p	470µF	82%	2000

SPECIFICATIONS							
All specifications	are based on 25°C after warm up time, Normal Input Voltage, a We reserve the right to change specifications based on techr		therwise no	ted.			
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit		
INPUT SPECIFICATIONS							
Input Voltage Range	"N" to DC "+": "L" to DC "-"	90		264	VAC		
input voltage Kange	N LODG T, L LODG -	120		370	VDC		
Frequency		47		440	Hz		
Input Current (Full Load)	@115VAC			440	- mA		
input Current (Full Load)	@230VAC			287			
Inruch Current (<2ma, Cold Stort)	@115VAC			20	Α		
Inrush Current (<2ms, Cold Start)	@230VAC			40			
Leakage Current	@264VAC (Touch Current)			0.1	mA		
OUTPUT SPECIFICATIONS							
Output Voltage			See Table				
Voltage Accuracy			±2		%		
Line Regulation	LL-HL		±0.5		%		
Load Regulation	5-100%		±1%				
Output Power			See Table				
Output Current			See Table				
Maximum Capacitive Load			See ⁻	Гable			
Ripple & Noise ⁽²⁾			See Table				
Hold Ha Time	@115VAC		6		ms		
Hold-Up Time	@230VAC		46				
Temperature Coefficient			±0.05		%/°C		
PROTECTION							
Short Circuit Protection	Hiccup Mode, Indefinite		Automatic	Recovery			
Over Power Protection	Hiccup Technique		Automatic Recovery				
Over Voltage Protection			Zener Diode Clamp				
ENVIRONMENTAL SPECIFICATIONS							
Operating Temperature		-40		+80	°C		
Storage Temperature		-40		+90	°C		
Max. Case Temperature				+95	°C		
Humidity				95	%RH		
Altitude	During Operation		5000		m		
Atmospheric Pressure		70		106	kPa		
MTBF	@25°C (MIL-HDBK-217F)	350,000			Hours		



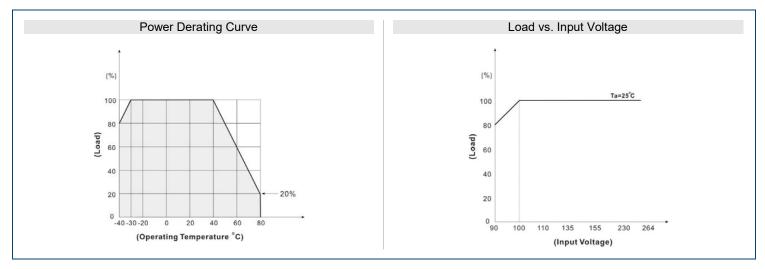
SPECIFICATIONS									
All specifications are based on 25°C after warm up time, Normal Input Voltage, and Full Load unless otherwise noted.									
	We reserve the right to change specifications based on technological advances. SPECIFICATION TEST CONDITIONS Min Typ Max Unit								
SPECIFICATION	TEST CONDITIONS				Тур	Max	Unit		
	GENERAL SPECIFICATIONS								
Efficiency	@230VAC			See Table					
Isolation	Input-Output				4000		VAC		
PHYSICAL SPECIFICATI	ONS								
Weight				1.83oz (52g)					
	Standard			2.07in x 1.08in x 0.93in (52.5mm x 27.5mm x 23.5mm)					
Dimensions (L x W x H)	Screw Terminal			3.78in x 2.12in x 1.14in					
Case Material						(96mm x 53.9mm x 29mm)			
Cooling ⁽³⁾					Plastic Resin (Flammability to UL 94V-0) Free Air Convection				
SAFETY CHARACTERISTICS									
CAI ETT GHAIGAGTERIO	1100		UL 60950-1 ⁽⁷⁾ , CAN/CSA C22.2 No. 60950-1-07						
			ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10)						
	cUL/UL Standard:	CAN/CSA-C22.2 No. 60601-1 (2008)							
			2 x MOPP						
Safety Approvals ⁽⁴⁾		CB							
			C 60950-1:2005 (2 nd Edition) + Am 1:2009 + Am 2:2013						
			01-1: 2005 (3 rd Edition) + CORR. 1 (2006) + CORR. 2						
	(2007) + AM1 (2012) or IEC 60601-1 (2012 reprint), 2 x MOPP								
	Conducted and Radiated EMI EN5501					Class B			
	ESD		EN61000-4-2, Air ±8kV, Contact ±4kV	łkV					
	Radiated Immunity		EN61000-4-3 10V/m						
	Fast Transient		EN61000-4-4 ±2kV	V					
EMC	Surge		EN61000-4-5 ±1kV	kV					
	Conducted Immunity		EN61000-4-6 10Vrms	rms					
	PFMF		EN61000-4-8 30A/m)A/m					
	Dips		EN61000-4-11 30% 10ms	l0ms					
	Interruption EN6100		EN61000-4-11 >95% 5000mS						

NOTES

- 1. 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 bandwidth with a 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. It is recommended to add Varistor 14S471K at L/N input side in parallel.
- 6. In order to indicate Screw Terminal option, add -A to model number. Ex. PSCZM20-12S-A
- 7. This product is Listed to applicable standards and requirements by UL.

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

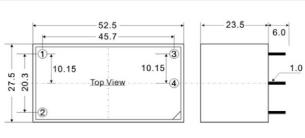
DERATING CURVES -

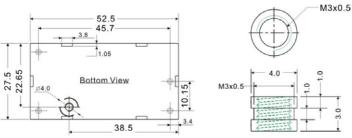


Standard



MECHANICAL DRAWINGS

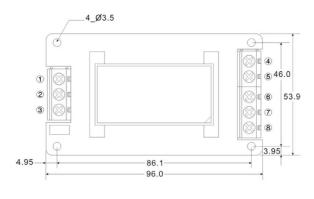




Pin#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT

Maximum Torque: 12{1.21} (kgf.cm {N.m})

Screw Terminal ("-A" Suffix)



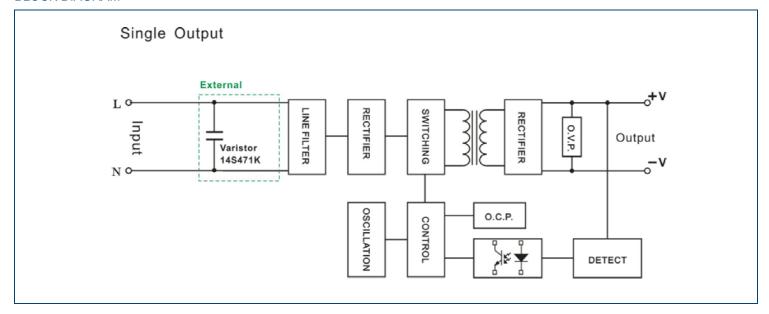




Pin#	Single		
1	NO CONNECT		
2	AC IN (L)		
3	AC (N)		
4	NO CONNECT		
5	+DC OUTPUT		
6	-DC OUTPUT		
7	NO CONNECT		
8	NO CONNECT		



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.

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