



Weight Size: 10.256 x 5 x 2.5in 5.73 lbs (2.6kg)

(260.50 x 127.00 x 63.50 mm)

FEATURES

- RoHS Compliant
- 1200 Watts Output Power
- High Efficiency up to 93%
- 4000VAC I/O Isolation (2 x MOPP)
- · Constant Current Limiting
- Global Control via RS232
- Power OK Signal (Power Good, Logic Low)
- Remote ON/OFF, Remote Sense Functions
- Remote Setting Multiple PSU via RS232, RS485 & I2C

- Protection: OLP, OVP, OTP, Fan Failure
- Programmable Output Voltage (0~105%)
- Programmable Output Current (0~105%)
- Universal Input Voltage Range: 90~264VAC (127~370VDC)
- Single Outputs Ranging from 12VDC to 60VDC
- Selectable +5V/0.5A or +9V/0.3A Auxiliary Output
- Forced Current Sharing at Parallel Operation
- ANSI/AAMI ES60601-1, TUV EN60601-1: 2006, IEC60601-1 Medical Approvals

DESCRIPTION

The PSME1200 series of medical AC/DC switching power supplies provides 1200 Watts of output power in a 10.256" x 5.000" x 2.500" enclosed case. This series consists of single output models ranging from 12VDC to 60VDC with a universal input voltage range of 90~264VAC (127~370VDC). Standard features include high efficiency up to 93%, programmable output voltage and output current, remote on/off, and power OK signal. This series also has over temperature, over voltage, and over load protection. These supplies also feature a low leakage current of less than 300µA (earth) and less than 100µA (patient) at 264VAC and are designed to withstand 4000VAC input to output isolation (2 x MOPP). All models are RoHS compliant and have ANSI/AAMI ES60601-1, TUV EN60601-1: 2006, and IEC60601-1 medical approvals.

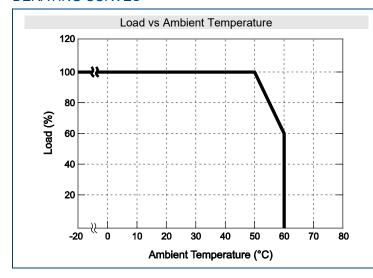
MODEL SELECTION TABLE								
Model Number	Input Voltage (2)	Output Voltage	Output Current	Line Regulation	Load Regulation	Output Power	Ripple & Noise (1)	Efficiency
PSME-1200-12		12 VDC	100A	±1.0%	±1.0	1200W	120mVp-p	89%
PSME-1200-15		15 VDC	80A	±1.0%	±1.0	1200W	150mVp-p	90%
PSME-1200-24	90~264 VAC	24 VDC	50A	±1.0%	±1.0	1200W	150mVp-p	91%
PSME-1200-30		30 VDC	40A	±1.0%	±1.0	1200W	150mVp-p	92%
PSME-1200-36		36 VDC	33.4A	±1.0%	±1.0	1202.4W	150mVp-p	92%
PSME-1200-48		48 VDC	25A	±1.0%	±1.0	1200W	150mVp-p	93%
PSME-1200-60		60 VDC	20A	±1.0%	±1.0	1200W	150mVp-p	93%

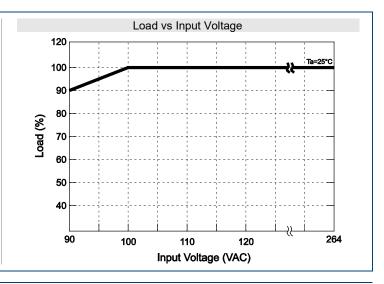
NOTES

- 1. Ripple & noise is measured at 20MHz limited bandwidth and using a 12" twisted pair-wire terminated with a 0.1µF & 47µF capacitors in parallel.
- 2. For voltages near the low end of the input voltage range, see the derating curve for the power supply output rating.
- 3. When in parallel operation only one unit might operate if the total output load is less than 5% of the rated load condition.
- 4. The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
- 5. This product is Listed to applicable standards and requirements by UL.
- *Due to advances in technology, specifications subject to change without notice

DERATING CURVES

9/30/2019





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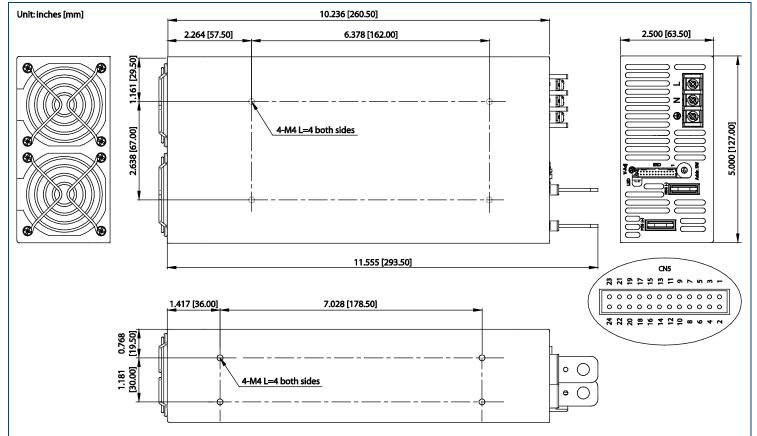


SPECIFICATIONS: PSME1200 SERIES

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 CONDITIO	NS	Min	Тур	Max	Unit
INPUT SPECIFICATIONS							
	AC input voltage range			90		264	VAC
Input Voltage (See Note 2)	DC input voltage range					370	VDC
Input Frequency				127 47		63	Hz
	At 115VAC and full load				14.5		
AC Current	At 230VAC and full load				6		Α
	At 115VAC and cold star	rt			30		
Inrush Current	At 230VAC and cold start At 230VAC and cold start				45		Α
	At 115VAC and full load	·-		0.99			
Power Factor	At 230VAC and full load			0.95			
OUTPUT SPECIFICATIONS							
Output Voltage					See T	able	
Voltage Tolerance	Includes set-up tolerance	e. line regulation, and lo	ad regulation	- 2.0		+2.0	%
Voltage Adjustability	Typical adjustment by po			-5.0		+5.0	%
Line Regulation	Low Line to High Line	(, , , , , , , , , , , , , , , , , , ,		-1.0		+1.0	%
Load Regulation	0% to 100% full load			-1.0		+1.0	%
Output Power					See T	able	
Output Current					See T		
Ripple & Noise (20MHz		147 5 '4 '			^ 7		
BW)	Measured with 0.1µF an	d 47µ⊢ capacitors in pai	rallel		See T	able	
Hold-up Time	At 230VAC and full load			16			ms
Setup Time	full load				800		ms
Rise Time	full load				100		ms
Temperature Coefficient	0~50°C			-0.02		+0.02	%/°C
PROTECTION							
Over Voltage Protection	Latch-style. Recovery af	ter reset AC power ON	or inhibit, (see pg 7)	Variable OVP, 120%±7% Vout			
Over Load Protection	Constant current limit		, ,	105% rated output power			
Over Temperature	Chut dawn alp valtage.	uita raaayani aftar tamp	acco dours	100°C±5°C detect on heatsink of sec. side			
Protection	Shut down o/p voltage; a	auto-recovery after temp	. goes down	100 C±5 C	detect on	neatsink of	sec. side
GENERAL SPECIFICATION	S						
Efficiency					See T	able	
	Input to Output	2 x MOPP		4000			
Isolation Voltage	Input to FG		Test is done without enclosure	1800			VAC
	Output to FG			500			
	Input to Output	500VDC		100			
Isolation Resistance	Input to FG	500VDC		100			ΜΩ
	Output to FG	500VDC		100			
Leakage Current Earth	At 264VAC					300	μA
Patient	At 264VAC					100	μΛ
FUNCTIONS							
Auxiliary Power				Selectable -	+5V/0.5A or	+9V/0.3A	aux. output
Remote ON/OFF Control	Isolated from output, See				By extern		
Power OK Signal	Sink Current: 20mA max	.; Drain Voltage: 40V m	ax.	Open draii	n signal low	when PSU	turns on
Output Voltage Trim				0		105	%Vo
Output Current Trim				0		105	%lo
Parallel Operation	Current Sharing				See pa	age 5	
ENVIRONMENTAL SPECIFI	CATIONS						
Operating Temperature	See derating curve			-20		+60	°C
Storage Temperature						+85	°C
Operating Humidity Non-condensing			20		90	% RH	
Storage Humidity				10		95	% RH
Cooling			Load a	and temper	ature contro		
Vibration 10~500Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes. Certified IEC60068-2-6-2007; IEC60068-2-64-2008							
PHYSICAL SPECIFICATIONS							
Weight 5.73 lbs (2.6kg)							
Dimensions (W x H x D) 10.256 x 5.000 x 2.500 inches (260.50 x 127.00 x				. 0,	63.50 mm)		
SAFETY & EMC (See Note 4	1)				, , , , , ,	,,,,	
Safety Approvals ⁽⁵⁾		S60601-1: CAN / CSA-0	22.2 No.60601-1): NFPA 99 ⁻ TU	V (EN60601	-1; IEC6060	01-1): MOP	P approval
Safety Approvals ⁽⁵⁾ UL/cUL (ANSI/AAMI ES60601-1; CAN / CSA-C22.2 No.60601-1); NFPA 99; TUV (EN60601-1; IEC60601-1); MOPP ap EMI Conduction & Radiation EN55011						1.12.0.01	
Harmonic Current				EN61000-3-2; EN61000-3-3			
EMS Immunity				EN60601-1-2; IEC61000-4-2, 3, 4, 5, 6, 8, 11			
							3, 3, 5, 11

MECHANICAL DRAWING



AC Input Terminal					
Pin	Function				
1	ACL				
2	ACN				
3	÷				

Control Pin Number Assignment (CN5): JST S24B-PHDSS or Equivalent						
Pin	Function	Description	Pin	Function	Description	
1	NC	For RS232 Receiver Function	13	EN+	Inhibit ON/OFF (+)	
2	NC	For RS232 Transmission Function	14	AUX	+5V/0.5A or +9V/0.3A Auxiliary Power	
3	AUX	+5V/0.5A or +9V/0.3A Auxiliary Power	15	EN-	Inhibit ON/OFF (-)	
4	GND	Ground	16	GND	Ground	
5	SCL	Serial Clock used in the I ² C Interface	17	PAR	Parallel Operation Current Sharing	
6	SDA	Serial Data used in the I ² C Interface	18	VSET	AUX Output Set	
7	AUX	+5V/0.5A or +9V/0.3A Auxiliary Power	19	POK	Power OK	
8	GND	Ground	20	GND	Ground	
9	VCI	V Program	21	VS-	Remote Sense (-)	
10	GND	Ground	22	VO-	Negative Output Voltage	
11	ACI	I Program	23	VS+	Remote Sense (+)	
12	GND	Ground	24	VO+	Positive Output Voltage	

LED STATUS

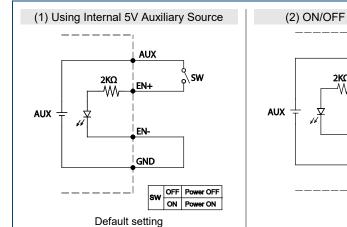
LED	LED Signal	Status
Solid (Green)	LED Signal	Power OK (Local Mode)
Solid (Green)		Power OK (Remote Mode)
Slow Blink (Green)		Power Standby
Fast Blink (Red)		Over Voltage Protection (OVP)
Solid (Red)		Over Load Protection (OLP)
Slow Blink (Red)		Over Temperature Protection (OTP)
Intermittent Blink (Red)		Fan Failure
Interlace Blink (Red)		Power Failure

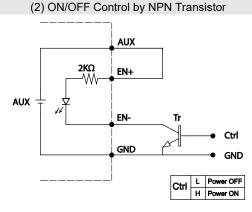
^{*} Local mode: Use ACI/VCI to control output current and voltage

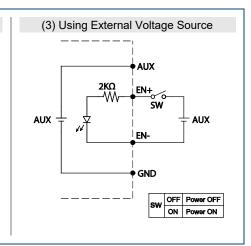
^{*} Remote Mode: Use RS232 or I²C command to control output current and voltage



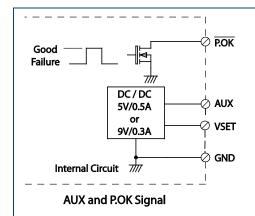
REMOTE ON/OFF



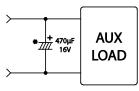




POWER OK SIGNAL



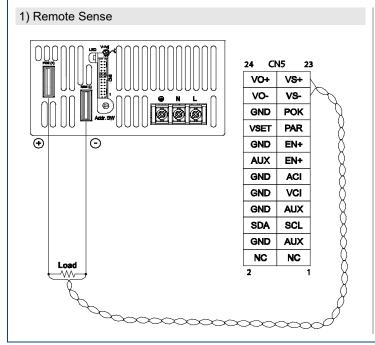
* Place an additional capacitor to have a better performance of auxiliary power operation.

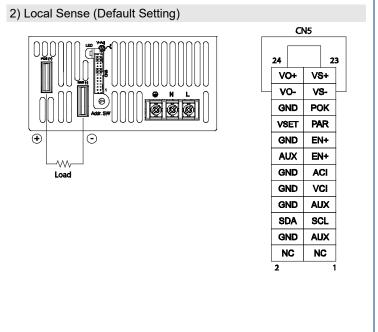


* The grounding of "AUX" power should be connected to "GND" port. If "V-" is connected as Grounding make sure to short the "GND" and "V-" ports.

VSET	Open (Default Setting)	5V	
	Short to GND	9V	

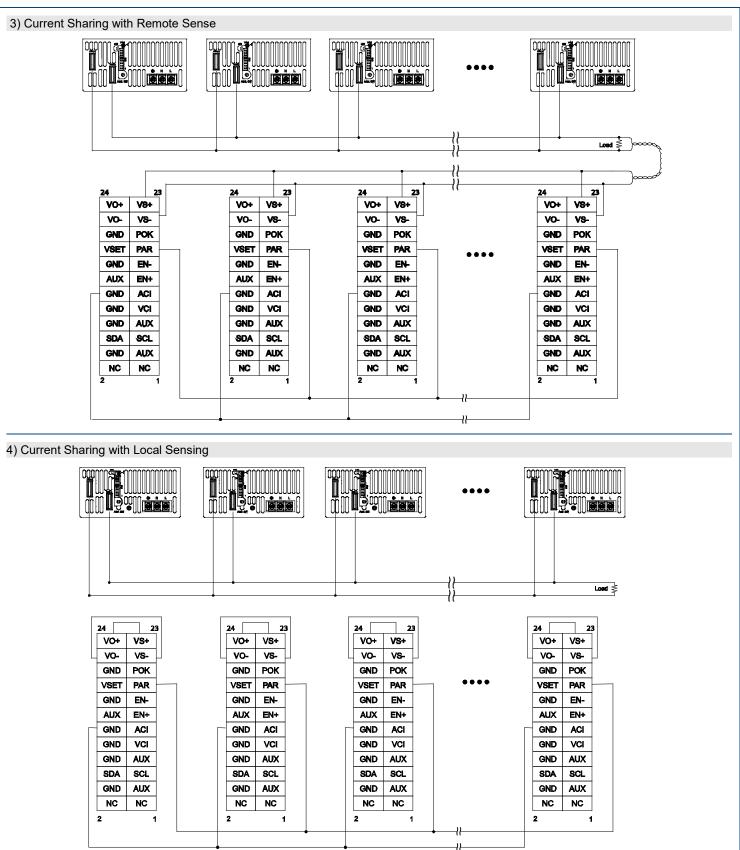
REMOTE SENSE





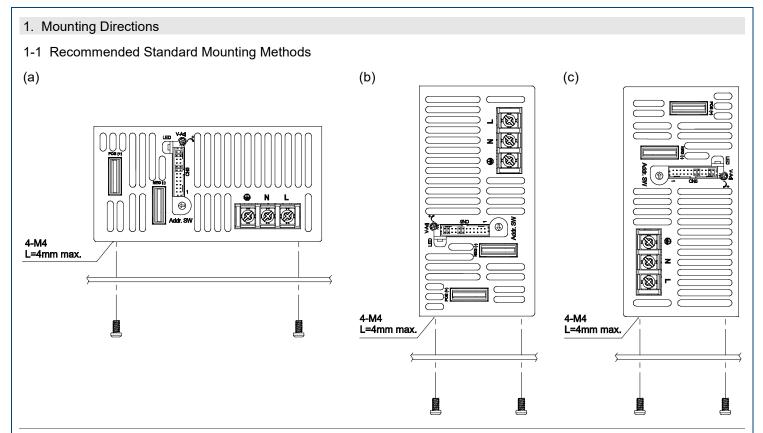


CURRENT SHARING



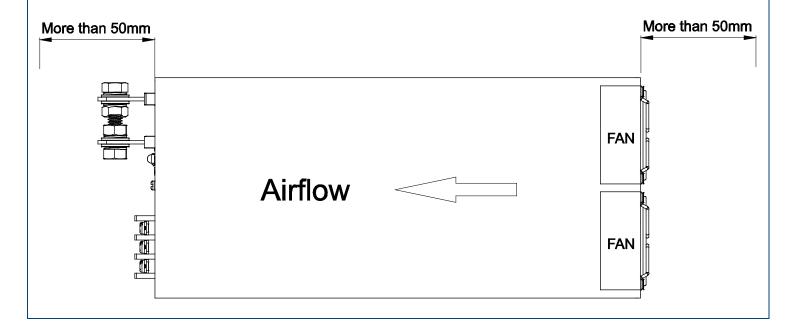


INSTALLATION INSTRUCTIONS



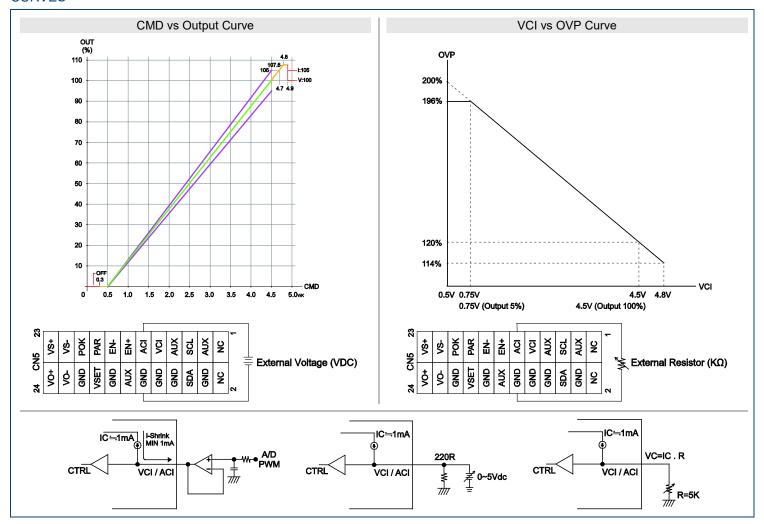
2. Mounting Method

- 2-1 There are ventilating holes on the front and back side panels. Do not obstruct; allow at least 50mm for airflow
- 2-2 The maximum allowable penetration for the screw is 4mm. Incomplete threading should not be penetrated.
- 2-3 Recommended torque of mounting screw: M4 screw: 1.27N m (13.0kgf cm)





CURVES-



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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