



Size: 5in x 3in x 1.09in (127mm x 76.2mm x 27.7mm)

FEATURES

- Input Range of 85-264VAC
- ITE & Medical Safety Standards
- AUX 12V Fan Power
- High Efficiency
- Power Good Signal
- Optional 5V Standby + Remote ON/OFF
- Optional AC/DC Input and Base Plate
- Class I

- Peak 400W (90-264VAC)
- Short Circuit, Over Load, Over Temperature, and Over Voltage Protection
- Optional OVC III
- IEC 62368-1 Edition 2.0, IEC 62368-1 Edition 3.0, EN 62368-1, UL62368-1, IEC 60601-1 Edition 3.1, IEC 60601-1 Edition 3.2, EN60601-1, ANSI/AAMI ES60601-1, CAN/CSA-C22.2 NO. 60601-1, and CAN/CSA-C22.2 NO.62368-1 Safety Approvals

DESCRIPTION

The PSMSG360 series of AC/DC power supplies offers 360 watts of output power and 400 watts at peak in an 5" x 3" x 1.09" open frame package. This series consists of single output models with an input voltage range of 85-264VAC. Several options are available for this series including 5V Standby + remote on/off, base plate, and OVC III. This series rated for ITE and medical applications and has IEC 62368-1 Edition 2.0, IEC 62368-1 Edition 3.0, EN 62368-1, UL62368-1, IEC 60601-1 Edition 3.1, IEC 60601-1 Edition 3.2, EN60601-1, ANSI/AAMI ES60601-1, CAN/CSA-C22.2 NO. 60601-1, and CAN/CSA-C22.2 NO.62368-1 safety approvals.

MODEL SELECTION TABLE											
Open Frame and Open Frame with Baseplate ("P") Models											
Model Number ⁽¹⁾	Input Voltage	ut Voltage Output Voltage		Rated Output Current		Output Power		Efficiency	Ripple	Max. No Load	
Model Number	Range	Vo	Fan	Convection	Forced Air ⁽²⁾	Fan	Max.	Peak	Efficiency	Noise	Consumption
PSMSG360-12S		12VDC	12VDC	16.66A	30A	0.5A	360W	400W	92%	120mV	
PSMSG360-19S	0E - 064VAC	19VDC	12VDC	10.52A	18.94A	0.5A	360W	400W	92%	190mV	0.3W
PSMSG360-24S	85~264VAC	24VDC	12VDC	8.33A	15A	0.5A	360W	400W	93%	240mV	0.300
PSMSG360-48S		48VDC	12VDC	4.16A	7.5A	0.5A	360W	400W	94%	480mV	

MODEL SELECTION TABLE													
Open Frame and Open Frame with Baseplate ("P") Models with 5V Standby													
"	Input Voltage	0	utput Voltaç	ge	Rated Output Current			Output Power			Rinnle	Max. No Load	
Model Number ⁽¹⁾	Range	Vo	Standby	Fan	Convection	Forced Air ⁽³⁾	Standby ⁽³⁾	Fan	Max.	Peak	Efficiency	Noise	Consumption (Remote OFF)
PSMSG360-12S05		12VDC	5VDC	12VDC	16.66A	30A	2A	0.5A	360W	400W	92%	120mV	
PSMSG360-19S05	85~264VAC	19VDC	5VDC	12VDC	10.52A	18.94A	2A	0.5A	360W	400W	92%	190mV	0.15W
PSMSG360-24S05	65~264VAC	24VDC	5VDC	12VDC	8.33A	15A	2A	0.5A	360W	400W	93%	240mV	0.1500
PSMSG360-48S05		48VDC	5VDC	12VDC	4.16A	7.5A	2A	0.5A	360W	400W	94%	480mV	

	MODEL SELECTION TABLE									
Enclosure and Top Fan Type ("T") with 5V Standby										
Madal Number (1) Input Voltage		Output Voltage		Rated Output Current		Output Power			Ripple	Max. No Load
Model Milmber(i)	Range	Vo	Standby	Forced Air ⁽⁴⁾	Standby ⁽⁴⁾	Max.	Peak	Efficiency	Noise	Consumption (Remote OFF)
PSMSG360-12ST05		12VDC	5VDC	30A	2A	360W	400W	92%	120mV	
PSMSG360-19ST05	85~264VAC	19VDC	5VDC	18.94A	2A	360W	400W	92%	190mV	0.15W
PSMSG360-24ST05	85~264VAC	24VDC	5VDC	15A	2A	360W	400W	93%	240mV	0.1500
PSMSG360-48ST05		48VDC	5VDC	7.5A	2A	360W	400W	94%	480mV	



SPECIFICATIONS					
	ons are based on 25°C, Nominal Input Voltage, and Maximum Output Curre		herwise not	ed.	
·	We reserve the right to change specifications based on technological ac	dvances.			
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit
INPUT SPECIFICATIONS		400		0.10	_
Input Voltage	Nominal Input Voltage	100		240	VAC
	Derate linearly from 100% Load at 115VAC to 80% Load at 85VAC	85		264	
Frequency	Sine Wave	47		63	Hz
Input Current (rms)	Low Line, Full Load, Vin=100VAC		4		A
, ,	High Line, Full Load, Vin=240VAC		1.7	00	
Inrush Current	Low Line, Full Load, 25°C, Cool Start, Vin=100VAC			20	A
5	High Line, Full Load, 25°C, Cool Start, Vin=230VAC	0.0		45	
Power Factor	@115VAC, Full Load	0.9		1	
Earth Leakage Current	Vin=240VAC. Fin=60Hz			0.3	mA
OUTPUT SPECIFICATIONS			Caa	Table	
Output Voltage Output Current				Table Table	
Line Regulation	Full Load, Vin=100-120VAC or 200-240VAC		See	Table 1	%
Load Regulation	Vin=100-240VAC			3	%
Total Regulation	VIII- 100-240 VAC		±3.0	3	%
Output Power			IJ.U	360	Watts
Output Power	Hold up time is measured from he and of the last charging pulse to the			360	vvalls
Hold Up Time	Hold up time is measured from he end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line		10		mS
Start Up Time	Full Load, Vin=100-240VAC		1 ⁽⁶⁾		S
Rise Time	At 115VAC & 230VAC			10	ms
No Load Power Consumption			See	Table	
PROTECTION					
Short Circuit Protection	Hiccup Mode, Non-Latching		Automatio	Recovery	
Over Load Protection	Hiccup Mode, Non-Latching, Automatic Recovery	105		150	%
Over Voltage Protection	Latch Mode	105		130	%
Over Temperature Protection	Input Circuit		Latch	Mode	
ENVIRONMENTAL SPECIFICATI	ONS				
Operating Temperature	Derate linearly from 100% Load at 50°C to 40% Load at 85°C	-40		85	°C
Storage Temperature	Surrounding Air Temperature	-40		85	°C
Operating Humidity	Non-Condensing	10		95	%
Storage Humidity				95	%
Altitude				5000	m
Vibration	10-500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
Fan Audio Noise	Background Noise 18dB at a distance of 50cm		35		dB
MTBF	@Full Load, 25°C Ambient Temperature per Telcodia (Bellcore TR-332)	200,000			Hours
GENERAL SPECIFICATIONS					
Efficiency	Full Load, Vin=230VAC			Table	
	Input to Output		4000		VAC
Isolation	Input to PE		2000		VAC
	Output to STB Output		500		VDC
PHYSICAL SPECIFICATIONS					
Weight	Weight varies depending on the model and accessories	12.		51oz (365-3	83g)
Dimensions (L x W x H)			5in x 3ir	n x 1.09in	
		(12	7mm x 76.2	2mm x 27.7r	mm)
SAFETY CHARACTERISTICS					
Safety Standards ⁽⁷⁾	IEC 62368-1 IEC 62368-1 EN 62368-1 UL62368-1 IEC 60601-1 IEC 60601-1 EN60601-1				Edition 3.0 Edition 3.2 Edition 3.2
	ANSI/AAMI ES60601-1 CAN/CSA-C22.2 NO. 60601-1 CAN/CSA-C22.2 NO.62368-1				



NOTES

- To indicate model with baseplate, add "P" to end of model number.
 To indicate model with enclosure and top fan, add "T" to end of model number.
- 2. With 29 CFM Forced Air to max load.
- 3. With 29 CFM Forced Air to max load. Standby = 2A with Forced Air
- 4. With 29 CFM Forced Air. Standby = 1A with Convection; Standby = 2A with Forced Air
- 5. Total output power = Vo + standby = 360W max.
- 6. For models equipped with 5V STB, the startup time is 2 seconds maximum.
- 7. This product is Listed to applicable standards and requirements by UL

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

EMC EMISSION -

Description	Parameter	Standard	Test Level
	Conducted	EN55011	Class B
Medical	Radiated	EN55011	Class A/Class B*(1)
Medicai	Harmonics	EN61000-3-2	-
	Flicker	EN61000-3-3	
	Conducted	EN55032	Class B
ITE	Radiated	EN55032	Class A/Class B*(1)
IIE	Harmonics	EN61000-3-2	N/A
	Flicker	EN61000-3-3	-

^{*} The EMC test requires the integration of the switching power supply with the load of an end system. Consequently, variations in the application or assembly of the end system will influence the test results.

EMC EMISSION -

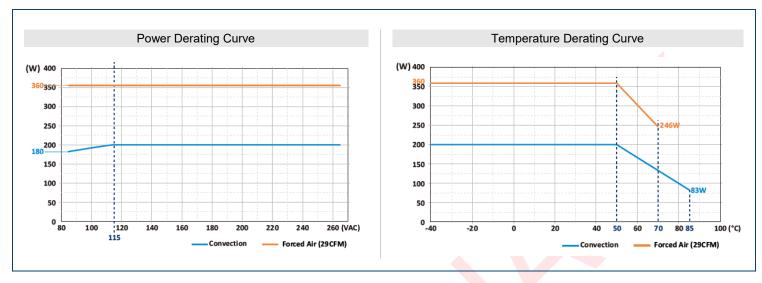
Parameter	Standard	Test Level	Criteria	
ESD	EN61000-4-2	15kV Air Discharge, 8kV Discharge Coupling Plane	Α	
RS	EN61000-4-3	-	Α	
EFT	EN61000-4-4	2kV	Α	
Surge	EN61000-4-5	Line to Line ±1kV, Line to Ground ±2kV	Α	
CS	EN61000-4-6 0.15-80(MHz)		Α	
PFMF	EN61000-4-8	-	Α	
		0% UT, 0.5 cycle (10 ms) @ Full Load	Α	
Valtage Dins (230V & 100V)	EN61000 4 11	0°/45°/90°/135°/180°/225°/270°/315°/360°	_ ^	
voltage Dips (230 v & 100 v)	EN01000-4-11	0% UT, 1 cycle (20ms), 0° @ Full Load	В	
		70% UT, 25 cycle (500ms), 0° @ Full Load	Α	
Voltage Interruptions (230V & 100V)	EN61000-4-11	0% Ut, 250 cycle (5s) @ Full Load	В	
voltage interruptions (250 v & 100 v)	LIN01000-4-11	0°/45°/90°/135°/180°/225°/270°/315°/360°	Ь	
Radiated Fields in Close Proximity	EN61000-4-39	-	Α	
ESD	EN61000-4-2	8kV Air Discharge, 4kV Discharge Coupling Plane	Α	
	EN61000-4-3	80-1000 (MHz)		
RS		1800, 2600, 3500, 5000	Α	
		(MHZ) (±1%)		
EFT	EN61000-4-4	2kV	Α	
Surge	EN61000-4-5	Line to Line ±1kV, Line to Ground ±2kV	Α	
CS	EN61000-4-6	0.15-80(MHz)	Α	
PFMF	EN61000-4-8	•	Α	
		0% UT, 0.5 cycle (10 ms) @ Full Load	Α	
Valtage Dine (220)/ 9 400)/)	ENG1000 4 11	0°/45°/90°/135°/180°/225°/270°/315°/360°	A	
voltage Dips (250 v & 100 v)	EN01000-4-11	0% UT, 1 cycle (20ms), 0° @ Full Load	В	
		70% UT, 25 cycle (500ms), 0° @ Full Load	Α	
Voltage Interruptions (220V 9 100V)	EN61000 4 11	0% Ut, 250 cycle (5s) @ Full Load	В	
voltage interruptions (2507 & 1007)	□ INO IUUU-4-II	0°/45°/90°/135°/180°/225°/270°/315°/360°	D	
	ESD RS EFT Surge CS PFMF Voltage Dips (230V & 100V) Voltage Interruptions (230V & 100V) Radiated Fields in Close Proximity ESD RS EFT Surge CS PFMF Voltage Dips (230V & 100V) Voltage Interruptions (230V & 100V)	ESD EN61000-4-2 RS EN61000-4-3 EFT EN61000-4-4 Surge EN61000-4-5 CS EN61000-4-6 PFMF EN61000-4-11 Voltage Interruptions (230V & 100V) EN61000-4-11 Radiated Fields in Close Proximity EN61000-4-39 ESD EN61000-4-2 RS EN61000-4-3 EFT EN61000-4-3 EFT EN61000-4-5 CS EN61000-4-5 CS EN61000-4-5 CS EN61000-4-5 CS EN61000-4-5 CS EN61000-4-5 CS EN61000-4-11 Voltage Dips (230V & 100V) EN61000-4-11	ESD	

^{*} The EMC test requires the integration of the switching power supply with the load of an end system. Consequently, variations in the application or assembly of the end system will influence the test results.

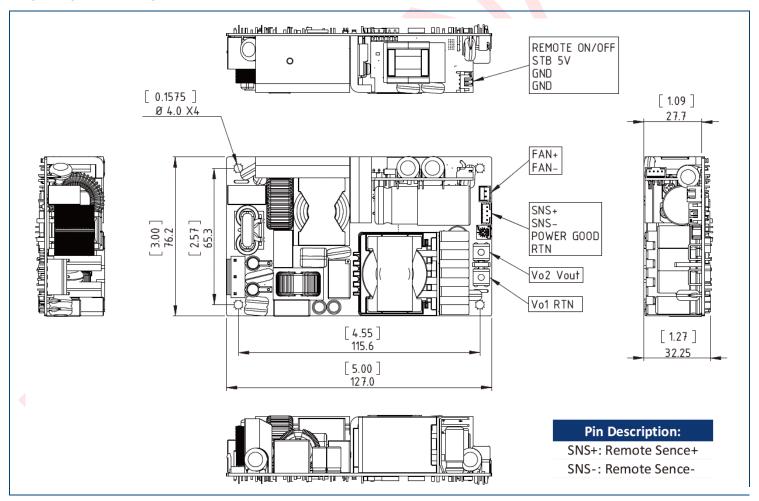
^{*(1)} Condition: Install a metal grounded shielding enclosure & add K5B material cores to both the AC input and DC output wires, with 2 turns of winding.



DERATING CURVES -

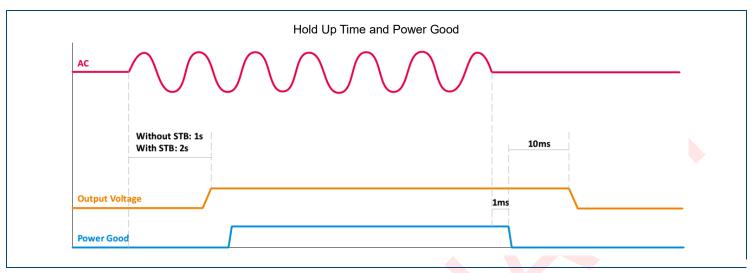


MECHANICAL DRAWINGS

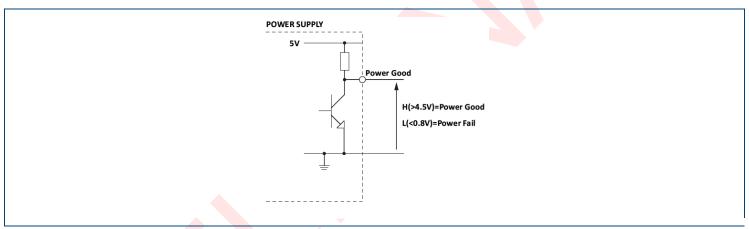




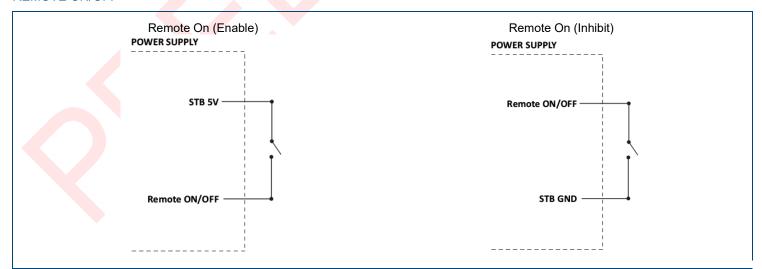
TIMING DIAGRAMS -



POWER GOOD-



REMOTE ON/OFF -





MODEL NUMBER SETUP :

PSMSG	360	-	12	S	Р	05
Series Name	Output Power		Input Voltage	Output Quantity	Product Type	Standby Power
			12: 12VDC 19: 19VDC 24: 24VDC 48: 48VDC	S: Single	Blank: Open Frame P: Open Frame + Base Plate T: Enclosure + Top Fan	Blank: Without 5V Standby Power 05: With 5V Standby Power

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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