



Size: 5in x 3in x 1.5" (127mm x 76.2mm x 38.1mm)

SPECIFICATIONS

FEATURES

- Input Range of 85-264VAC
- ITE & Medical Safety Standards
- Fan Speed Control
- High Efficiency
- Power Good Signal
- 5V Standby + Remote ON/OFF
- 330W Convection Cooled, 600W Fan Cooled, 700W Peak Power
- Class I (Meets Class II)
- Short Circuit, Over Load, Over Temperature, and Over Voltage Protection
- IEC 62368-1 Edition 2.0, IEC 62368-1 Edition 3.0,
 IEC 60601-1 Edition 3.1, IEC 60601-1 Edition 3.2,
 EN 62368-1, EN60601-1, UL62368-1, CAN/CSA-C22.2 NO.62368-1, CAN/CSA-C22.2 NO.60601-1, ANSI/AAMI ES60601-1 Safety Approvals

DESCRIPTION

The PSMWC600 series of AC/DC power supplies offers 600 watts of output power in a 5" x 3" x 1.5" open frame package. This series consists of single output models with an input voltage range of 85-264VAC. This series rated for ITE and medical applications and has IEC 62368-1 Edition 2.0, IEC 62368-1 Edition 3.0, IEC 60601-1 Edition 3.1, IEC 60601-1 Edition 3.2, EN 62368-1, EN60601-1, UL62368-1, CAN/CSA-C22.2 NO.62368-1, CAN/CSA-C22.2 NO. 60601-1, and ANSI/AAMI ES60601-1 safety approvals.

MODEL SELECTION TABLE												
Input Voltage		Output Voltage			Rated Output Current					Ripple	Max. No Load	
Model Number	Range	Vo	Standby	Fan	Free Air (Typ.)	Forced Air ⁽¹⁾	Standby ⁽²⁾	Fan	Output Power	Efficiency	Noise	Consumption (Remote OFF)
PSMWC600-12S05		12VDC	5VDC	12VDC	25A	50A	2A	0.5A	600W	92%	120mV	
PSMWC600-19S05	85~264VAC	19VDC	5VDC	12VDC	15.78A	31.5A	2A	0.5A	600W	92%	190mV	0.21W
PSMWC600-24S05	85~264VAC	24VDC	5VDC	12VDC	12.5A	25A	2A	0.5A	600W	93%	240mV	0.2100
PSMWC600-48S05		48VDC	5VDC	12VDC	6.25A	12.5A	2A	0.5A	600W	94%	480mV	

SPECIFICATIONS						
All specifica	ations are based on 25°C, Nominal Input Voltage, and Maximum Output Currei We reserve the right to change specifications based on technological ac		therwise note	ed.		
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS						
Input Voltage	Nominal Input Voltage	100		240	VAC	
	Derate linearly from 100% Load at 115VAC to 80% Load at 85VAC	85		264	VAC	
Frequency	Sine Wave	47		63	Hz	
Input Current (rms)	Low Line, Full Load, Vin=100VAC		6.9		Α	
input Current (inis)	High Line, Full Load, Vin=240VAC		2.9		_ A	
Inrush Current	Low Line, Full Load, 25°C, Cool Start, Vin=100VAC			20	А	
inrush Current	High Line, Full Load, 25°C, Cool Start, Vin=230VAC		45	45		
Power Factor	tor					
Earth Leakage Current	Earth Leakage Current Vin=240VAC. Fin=60Hz				mA	
OUTPUT SPECIFICATIONS						
Output Voltage				Table		
Output Current	See Table					
Line Regulation	Full Load, Vin=100-120VAC or 200-240VAC			1	%	
Load Regulation	on Vin=100-240VAC			3	%	
Total Regulation	Total Regulation		±3.0		%	
Output Power				600	Watts	
Hold Up Time	Hold up time is measured from the 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 (at 70% Full Load)		16		mS	
Start Up Time	Full Load, Vin=100-240VAC			1	s	
Rise Time	At 115VAC & 230VAC			10	ms	
No Load Power Consumption			See '	Table		
PROTECTION						
Short Circuit Protection	Hiccup Mode, Non-Latching		Automatic	Recovery		
Over Load Protection	Hiccup Mode, Non-Latching, Automatic Recovery	105		150	%	
Over Voltage Protection	Latch Mode	112		132	%	
Over Temperature Protection Hiccup Mode, Non-Latching, Automatic Recovery Input Circuit SR MOSFET			120 120		°C	



SPECIFICATIONS						
All specification	ns are based on 25°C, Nominal Input Voltage, and Maximum Output Currer	nt unless otl	nerwise not	ed.		
	We reserve the right to change specifications based on technological ad	lvances.				
ENVIRONMENTAL SPECIFICATIO	NS					
Operating Temperature	Derate linearly from 100% Load at 50°C to 40% Load at 85°C	-40		<u> </u>	°C	
Storage Temperature	Surrounding Air Temperature	-40		85	°C	
Operating Humidity	Non-Condensing	10		95	%	
Altitude				5000	M	
Vibration	10-500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G	
GENERAL SPECIFICATIONS						
Efficiency	Full Load, Vin=230VAC		See	Table		
Isolation	Input to Output		4000		VAC	
	Input to PE		2000		VAC	
PHYSICAL SPECIFICATIONS						
Weight	Weight varies depending on the model and accessories	12.88oz ~ 13.51oz (365-383g)				
Dimensions (L x W x H)			5in x 3in x 1.5"			
,		(127mm x 76.2mm x 38.1mm)				
SAFETY CHARACTERISTICS						
	IEC 62368-1				Edition 2.0	
	IEC 62368-1	Edition 3.0				
	IEC 60601-1	Edition 3.1				
	IEC 60601-1	Edition 3.2				
Safety Standards ⁽⁴⁾	EN 62368-1					
	EN60601-1					
	UL62368-1					
	CAN/CSA-C22.2 NO.62368-1					
	CAN/CSA-C22.2 NO. 60601-1					
	ANSI/AAMI ES60601-1					

NOTES

- 1. With 10CFM Forced Air to max load
- Standby=1A with Convection, Standby=2A with Forced Air
- 3.
- Total Output Power=Vo+standby=600W max.
 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 B ^{⋆(1)}
iviedicai	Harmonics	EN61000-3-2	-
	Flicker	EN61000-3-3	-
	Conducted	EN55032	Class B
ITE	Radiated	EN55032	Class B
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.

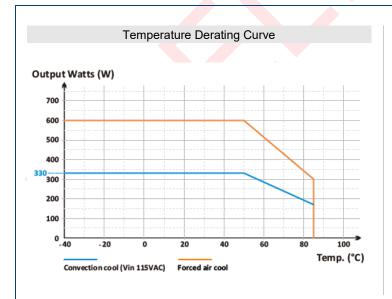


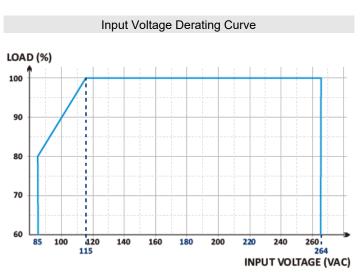
EMC EMISSION -

Description	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 ±4kV (TBD)	Α	
	CS	EN61000-4-6	0.15-80(MHz)	Α	
	PFMF	EN61000-4-8		Α	
Medical			0% UT, 0.5 cycle (10 ms) @ 300W 0°/45°/90°/135°/180°/225°/270°/315°/360°		
	Voltage Dips (230V & 100V)	EN61000-4-11	0% UT, 1 cycle (20ms) <mark>, 0°</mark> @ 300W	В	
			70% UT, 25 cycle (500ms), 0° @600W (230V), 330W		
	Voltage Interruptions (230V & 100V)	EN61000-4-11	0% Ut, 250 cycle (5s) @ Full Load 0°/45°/90°/135°/180°/225°/2 <mark>70°</mark> /315°/360°	В	
	Radiated Fields in Close Proximity	EN61000-4-39			
	ESD	EN61000-4-2	8kV Air Discharge, 4kV Discharge Coupling Plane	Α	
	RS	EN61000-4-3	80-1000 (MHz) 1800, 2600, 3500, 5000 (MHZ) (±1%)	А	
	EFT	EN61000-4-4	2kV	Α	
	Surge	EN61000-4-5	Line to Line ±1kV, Line to Ground ±4kV (TBD)	Α	
	CS	EN61000-4-6	0.15-80(MHz)		
ITE	PFMF	EN61000-4-8	-	Α	
		0% UT, 0 0°/45°/90°/		Α	
	Voltage Dips (230V & 100V)	EN61000-4-11	0% UT, 1 cycle (20ms), 0° @ Full Load	В	
	,		70% UT, 25 cycle (500ms), 0° @600W (230V), 330W (100V)	В	
	Voltage Interruptions (230V & 100V)	EN61000-4-11	0% Ut, 250 cycle (5s) @ Full Load 0°/45°/90°/135°/180°/225°/270°/315°/360°		

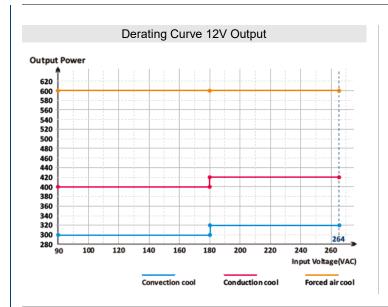
^{*} The EMC test requires the integration of the switching power supply with the load of an end system. Consequently, variations in the application or assembly of the end system will influence the test results.

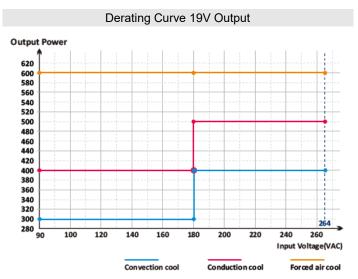
DERATING CURVES -



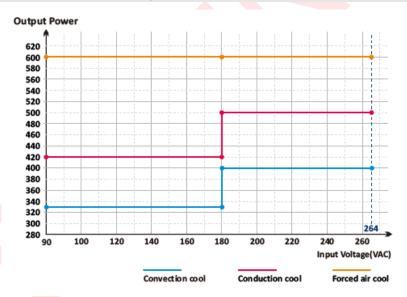








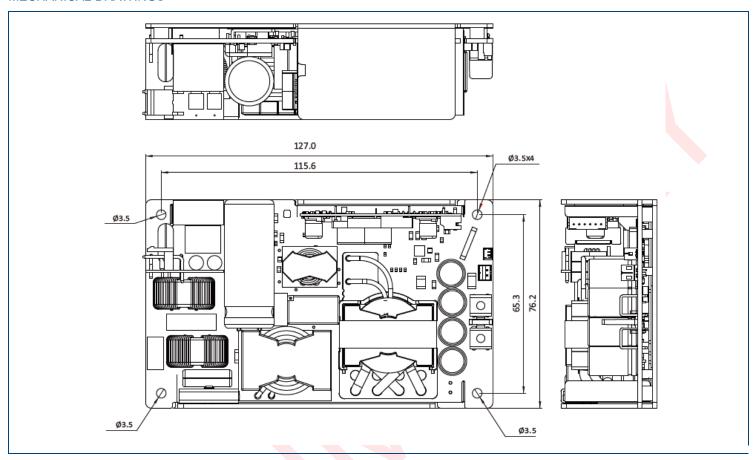
Derating Curve 24V & 48V Output



Page 4 of 6



MECHANICAL DRAWINGS



MODEL NUMBER SETUP -

PSMWC	600	-	12	S	05
Series Name	Output Power		Input Voltage	Output Quantity	Standby Power
			12: 12VDC 19: 19VDC 24: 24VDC 48: 48VDC	S: Single	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.

Contact Wall Industries for further information:

Phone: ☎(603)778-2300 Toll Free: ☎(888)597-9255 Fax: ☎(603)778-9797

E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

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