Size: 4.92in x 5.12in x 1.97in
(125mm x 130mm x 50mm)

FEATURES

- Input Voltage Range of 85-277VAC/120-390VDC
- High Efficiency, High Reliability
- Continuously Static Power Margin up to 125% (PN)
- Up to 200% (PN) Dynamic Power for 5s
- Active PFC
- Transient Peak Current Function: 6 times rated current for 15ms
- Supports ModBus Communication Protocol
- Double-Sided Conformal Coating, Salt-Spray Proof, Explosion Proof
- Operating Altitude up to 5000m
- RoHS Compliant
- Output Short Circuit, Over Current, Over Voltage, and Over Temperature Protection, Input Under-Voltage Protection
- OVC III (Design Refers to EN62477, 2000m)
- Supports DC OK, AC OK, Remote Control Function
- Support 5+1 Bus High Precision Parallel Current Sharing
- Safety According to ATEX, IECEx Increased Safety Type Explosive-Proof Certification
- Safety According to ANSI/ISA 71.04-2013 G3
- Safety According to IEC/EN/UL/BS EN62368, GB4943, IEC/EN/UL61010, EN61558, EN62477, IEC60079, GB3836, and NB/T31017

DESCRIPTION

The PSHDN240 series of AC/DC converters offers 240 watts of power in a 4.92” x 5.12” x 1.97” DIN rail package. This series consists of single output models with a wide input voltage range of either 85-277VAC or 120-390VDC. Features of this series include high efficiency and high reliability, active PFC, and protection against output short circuit, over current, over voltage, and over temperature conditions. This series supports DC OK, AC OK, remote control function, parallel current sharing, and ModBus communication protocol. It also has safety according to ATEX, IECEx, ANSI/ISA 71.04-2013 G3, IEC/EN/UL/BS EN62368, GB4943, IEC/EN/UL61010, EN61558, EN62477, IEC60079, GB3836, and NB/T31017.

MODEL SELECTION TABLE

Model Number[1]	Input Voltage Range	Output Voltage	Output Voltage Adjustable Range	Output Current	Output Power	Maximum Capacitive Load	Efficiency
PSHDN240-24S	85~277VAC (120~390VDC)	24V	24-28V	10A	240W	50000μF	94.5%
PSHDN240-48S		48V	48-55V	5A	240W	25000μF	95%

SPECIFICATIONS

All specifications are based on Ta=25°C, Humidity <75%, Nominal Input Voltage, and Rated Output Load unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS		Min	Typ	Max	Unit
INPUT SPECIFICATIONS						
Input Voltage Range	Rated Input (Certified Voltage)		100		240	VAC
	AC Input		85		277	
	DC Input		120		390	VDC
Maximum Input Voltage	Lasts for 2H without damage				305	VAC
Input Frequency			47		63	Hz
Input Switching Frequency			65		80	VAC
Input Turn-Off Voltage			55		70	VAC
Input Current	115VAC				3	A
	230VAC				1.5	
Inrush Current	Cold Start	115VAC		10		A
		230VAC		15		
Power Factor	115VAC		0.98			
	230VAC		0.95			
THD	115VAC, Rated Load			3.5		%
Input Fuse	Built-In Fuse			8		A
Hot Plug			Unavailable			
OUTPUT SPECIFICATIONS						
Output Voltage			See Table			
Voltage Accuracy	Full Load Range			±1.0		%
Line Regulation	Rated Load			±0.25		%
Load Regulation	0%-100% Load			±0.5		%
Power Consumption[2]	230VAC, Rated Load	24V		13.9		W
		48V		12.6		
Output Power			See Table			
Output Current			See Table			
Maximum Capacitive Load			See Table			
Ripple & Noise[3]	20MHz bandwidth (Peak-Peak Value)	24V			80	mV
		48V			120	
Hold-Up Time	115VAC/230VAC		20			ms
Start-Up Delay Time	115VAC/230VAC, Rated Load				2000	ms

SPECIFICATIONS

All specifications are based on Ta=25°C, Humidity <75% RH, Nominal Input Voltage, and Rated Output Load unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS			Min	Typ	Max	Unit
OUTPUT SPECIFICATIONS (CONT.)							
Static Power	115/230VAC, work for a long time at room temperature				125		%Io
Dynamic Power	115/230VAC, Off time adapts with different load conditions, long term protection, self-recovery			200%Io works 5s min			
Transient Peak Current Function	Long-term, short-circuit protection, self-recovery			600%Io working 15ms 3 times (typ.)			
DC OK Signal	Resistive Load			30VDC/1A Max.			
PROTECTION							
Short Circuit Protection				Hiccup mode, constant current operation, (constant current time adapts with different load conditions), output off for 5s, long-term short circuit protection, self-recovery			
Over Current Protection				Yes			
Over Voltage Protection	Output off or clamping, self-recovery	24V			≤35		VDC
		48V			≤60		
OVC				III			
Over Temperature Protection[4]	230VAC, Rated Load, Self-Recovery	Over Temperature Protection Start				95	°C
		Over Temperature Protection Release		60			
ENVIRONMENTAL SPECIFICATIONS							
Operating Temperature				-40		+85	°C
Storage Temperature				-40		+85	°C
Operating Humidity	Non-Condensing			10		95	%RH
Storage Humidity	Non-Condensing			20		90	%RH
Operating Altitude						5000	m
Power Derating	Operating Temperature Derating @AC	-40°C to -30°C		2.0			%/°C
		+60°C to +75°C		2.5			
		+75°C to +85°C	25CFM	2.25			
	Operating Temperature Derating @DC	-40°C to -30°C		2			
		+60°C to +75°C		2.5			
		+75°C to +85°C	25CFM	2.25			
	Input Voltage Derating	85VAC-100VAC		1			%/VAC
		120VDC-140VDC		1			%/VDC
MTBF	MIL-HDBK-217F @25°C			702,000			H
	MIL-HDBK-217F @40°C			524,000			
ENVIRONMENTAL CHARACTERISTICS							
High and Low Temperature Working	+85°C, -40°C			GB2423.1, IEC60068-2-1			
Sinusoidal Vibration	10-500Hz, 2g, three directions of X, Y, Z axis			GB2423.10, IEC60068-2-6			
Salt Mist	+35°C, 5%NACL, 48h			GB2423.17, IEC60068-2-11			
Alternating Hot and Humid	+25°C, 95%RH - +60°C, 95%RH			GB2423.4, IEC60068-2-30			
Low Temperature Storage	-40°C			GB2423.1, IEC60068-2-1			
High Temperature Storage	85°C			GB2423.2, IEC60068-2-2			
High Temperature Aging	60°C			GB2423.2, IEC60068-2-2			
Normal Temperature Aging	25°C			GB2423.1, IEC60068-2-1			
Temperature Shock	-40°C to 85°C			GB2423.22, IEC60068-2-14			
Temperature Cycle	-25°C to 60°C			GB2423.22, IEC60068-2-14			
Hot and Humid	+85°C, 85%/RH			GB2423.50, IEC60068-2-67			
High Temperature Elevation	60°C, 54KPa			GB2423.26, IEC60068-2-41			
Low Temperature Elevation	-25°C, 54KPa			GB2423.25, IEC60068-2-40			
Constant Humid and Hot	40°C, 95%RH			GB2423.3, IEC60068-2-78			
Random Vibration	5-10Hz, ASD 0.3-10g^2/Hz, three directions of X, Y, Z axis			GB/T 4798.2-2008, IEC60721-3-2			
Sinusoidal Vibration Response Sinusoidal Vibration Endurance Test	10-150Hz, 1g, three directions of X, Y, Z axis			GB/T 11287-2000, IEC60255-21-1			
Sinusoidal Impulse Response Sinusoidal Impact Endurance Test	15g, pulse duration 11ms, three times in each direction of X, Y, Z axis			GB/T 114537-1993, IEC60255-21-2			
Packaging Drop	1m, one corner, three edges and six sides			GB2423.8, IEC68-2-32			

SPECIFICATIONS

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SPECIFICATION	TEST CONDITIONS			Min	Typ	Max	Unit
GENERAL SPECIFICATIONS							
Typ. Efficiency	230VAC				See Table		
Isolation Test[5]	Electric strength test for 1min. Leakage Current <5mA		Input-⏚	2500			VAC
			Input-Output	4000			
			Output-⏚	500			
Insulation Resistance	Environmental Temperature: 25±5°C Relative humidity: <95%, non-condensing Test voltage: At 500VDC		Input-⏚	500			MΩ
			Input-Output	500			
			Output-⏚	500			
Switching Frequency[6]	PFC			60		70	kHz
	DC-DC			40		130	
Leakage Current	240VAC	Touch Current				0.5	mA
High and Low Voltage Crossing[7]					NB/T 31111-2017		
FUNCTIONAL SPECIFICATIONS							
Remote Control	Voltage between ON/OFF and SGND		Power On	0		0.8	VDC
			Power Off	4		20	
DC OK Relay	Operation Voltage	24V			21.6		V
		48V			43.2		
	Release Voltage	24V			19.2		
		48V			38.4		
AC OK Signal	Input Voltage 85-305VAC			3		5	VDC
Current Sharing Accuracy	When multiple units are connected in parallel, the sub-modules shunt more than 50% of the rated load of a single power supply				±5		%
LED Signal	Main output status indicator	Normal Output			LED On		
		200%Io > Load > 125%Io			Green Light Flashing		
		Power Off (No AC Power), Under-Voltage Protection, Remote Off Short Circuit/Over-Current Protection, Output Voltage Backflow			LED Off		
RS485-A, RS485-B	Based on ModBus Communication Protocol				RS485 Communication		
PHYSICAL SPECIFICATIONS							
Dimensions (L x W x H)					4.92in x 5.12in x 1.97in (125mm x 130mm x 50mm)		
Weight					2.09lbs (0.95kg)		
Cooling					Free Air Convection		
Case Material					Metal (AL5052, SUS304)		
SAFETY CHARACTERISTICS & EMC							
Safety Standards					Design refers to IEC/EN/UL/BS EN62368-1, IEC/EN/UL61010-1, GB4943.1, EN61558-1, EN62477-1, IEC60079-0, IEC60079-7, IEC60079-15, GB3836.1, NB/T31017, ANSI/ISA 71.04-2013		
Safety Class					Class I		
EMI	CE	General Standard	CISPR32 EN55032		Class B		
		Industry/Light Industry	IEC61000-6-3	AC Port	Class B		
				DC Port	Class A		
			IEC61000-6-4	AC Port	Class A		
		Classification Society[11]	GD22-2015	10kHz-30MHz	EMC1		
		Power Station/Subsation	IEC61850-3		Class A		
		Railway	IEC62236-3-2 (EN50121-3-2)	Output Port	Class A +20dB		
			IEC62236-4 (EN50121-4)	Output Port	Class A +20dB		
			IEC62236-5 (EN50121-5)	AC Port	Class A		
	RE	General Standard	CISPR32 EN55032		Class B		
		Industry/Light Industry	IEC61000-6-3		Class B		
			IEC61000-6-4		Class A		
		Classification Society	GD22-2015		150KHz-2GHz, EMC1		
		Power Station/Subsation	IEC61850-3		Class A		
		Railway	IEC62236-3-2 (EN50121-3-2)		Class B		
			IEC62236-4 (EN50121-4)		Class B		
			IEC62236-5 (EN50121-5)		Class B		
	Harmonic Current	General Standard	IEC/EN6100-3-2		Class A and Class D		
		Railway	IEC62236-3-2 (EN50121-3-2)		50Hz-2KHz		
			IEC62236-4 (EN50121-4)		50Hz-2KHz		

SPECIFICATIONS

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We reserve the right to change specifications based on technological advances.

SPECIFICATION		TEST CONDITIONS				Min	Typ	Max	Unit
SAFETY CHARACTERISTICS (Cont.)									
EMS	ESD	General Standard	IEC/EN61000-4-2	Output Port	Contact ±8kV/Air ±15kV				Perf. Criteria A
		Industry/Light Industry	IEC61000-6-1	Contact ±4kV/Air ±8kV					Perf. Criteria A
			IEC61000-6-2	Contact ±4kV/Air ±8kV					Perf. Criteria A
		Wind Power	NB/T 31017-2011	Contact ±6kV/Air ±8kV					Perf. Criteria A
		Classification Society	GD22-2015	Contact ±6kV/Air ±8kV					Perf. Criteria A
		Power Station/Subsation	IEC61850-3	Contact ±6kV/Air ±8kV					Perf. Criteria A
			IEC61000-6-5	Contact ±6kV/Air ±8kV					Perf. Criteria A
		Railway	IEC62236-3-2 (EN50121-3-2)	Contact ±6kV/Air ±8kV					Perf. Criteria A
			IEC62236-4 (EN50121-4)	Contact ±6kV/Air ±8kV					Perf. Criteria A
			IEC62236-5 (EN50121-5)	Contact ±6kV/Air ±8kV					Perf. Criteria A
	RS	General Standard	IEC/EN 61000-4-3	10V/m					Perf. Criteria A
		Industry/Light Industry	IEC61000-6-1	80M-1GHz, 3V/m; 1.4G-6GHz, 3V/m					Perf. Criteria A
			IEC61000-6-2	80M-1GHz, 10V/m; 1.4G-2GHz, 3V/m; 2-2.7GHz, 1V/m					Perf. Criteria A
		Wind Power	NB/T 31017-2011	80M-1GHz, 10V/m					Perf. Criteria A
		Classification Society	GD22-2015	80M-2GHz, 10V/m					Perf. Criteria A
		Power Station/Subsation	IEC61850-3	80M-3GHz, 10V/m					Perf. Criteria A
			IEC61000-6-5	80M-1GHz, 10V/m; 1G-2.7GHz, 3V/m; 2.7G-6GHz, 1V/m					Perf. Criteria A
		Railway	IEC62236-3-2 (EN50121-3-2)	80M-1GHz, 20V/m; 1.4GHz-2GHz, 10V/m; 2G – 2.7GHz, 5V/m; 2.7G-6GHz, 3V/m					Perf. Criteria A
			IEC62236-4 (EN50121-4)	80M-800MHz, 10V/m; 800MHz-1GHz, 20V/m; 1.4G – 2GHz, 10V/m; 2G-2.7GHz, 5V/m, 5.1G-6GHz, 3V/m					Perf. Criteria A
			IEC62236-5 (EN50121-5)	80M-800MHz, 10V/m; 800MHz-1GHz, 20V/m; 1.4G – 2GHz, 10V/m; 2G-2.7GHz, 5V/m, 5.1G-6GHz, 3V/m					Perf. Criteria A
	EFT	General Standard	IEC/EN 61000-4-4	±4kV					Perf. Criteria A
		Industry/Light Industry	IEC61000-6-1	DC input, output and signal control port: ±0.5kV, 5/100KHz, AC input and output port: ±1KV, 5V/100KHz					Perf. Criteria A
			IEC61000-6-2	DC input, output and signal control port: ±0.5KV, 5/100KHz, AC input and output port: ±1KV, 5/100KHz					Perf. Criteria A
		Wind Power	NB/T 31017-2011	Power source and PE: ±4KV, 5/100KHz, signal and control port: ±2KV, 5/100KHz (Capacitive coupling clamp)					Perf. Criteria A
		Classification Society	GD22-2015	±1KV, 5KHz; ±2KV, 2.5KHz					Perf. Criteria A
		Power Station/Subsation	IEC61850-3	AC, DC input output port, signal port, ground port: ±2KV					Perf. Criteria A
			IEC61000-6-5	AC, DC input output port: ±2KV; signal port: cable <3m: ±2KV, cable >3m: ±4KV					Perf. Criteria A
		Railway	IEC62236-3-2 (EN50121-3-2)	Signal, control port: ±2KV, 5KHz (Capacitive coupling clamp), AC, DC input output port: ±2KV, 5KHz					Perf. Criteria A
			IEC62236-4 (EN50121-4)	Signal, control port: ±2KV, 5KHz (Capacitive coupling clamp), AC, DC input output port: ±2KV, 5KHz, PE ground/shell: ±1KV, 5KHz					Perf. Criteria A
			IEC62236-5 (EN50121-5)	Signal, control port: ±2KV, 5KHz (Capacitive coupling clamp), AC, DC input output port: ±4KV, 5KHz, PE ground/shell: ±1KV, 5KHz					Perf. Criteria A
	Surge	General Standard	IEC/EN 61000-4-5	AC Input Port: ±4KV/±6KV					Perf. Criteria A
		Industry/Light Industry	IEC61000-6-1	DC input and output port: ±0.5KV/±1KV, AC input and output port: ±1KV/±2KV, signal and control port: ±1KV common mode					Perf. Criteria A
			IEC61000-6-2	DC input and output port: ±0.5KV/±0.5KV, AC input and output port: ±1KV/±2KV, signal and control port: ±1KV common mode					Perf. Criteria A
		Wind Power	NB/T 31017-2011	AC, DC power source port: ±1KV/±2KV					Perf. Criteria A
		Classification Society	GD22-2015	AC, DC power source: ±0.5KV/±1KV					Perf. Criteria A
		Power Station/Subsation	IEC61850-3	AC, DC power source , signal port: ±1KV/±2KV, power carrier communication port: ±2kV/4kV					Perf. Criteria A
			IEC61000-6-5	Signal, control port: ±1KV common mode (if the cable <10m, no test is required), DC input and output port: ±1KV/±2KV, AC input and output port: ±2KV/4KV					Perf. Criteria A
		Railway	IEC62236-3-2 (EN50121-3-2)	Battery port, AC input port: ±1KV/±2KV (42Ω output impedance)					Perf. Criteria A
			IEC62236-4 (EN50121-4)	DC power source, signal, control port: ±1KV/±2KV (42Ω output impedance), AC power source port: ±1KV/±2KV					Perf. Criteria A
			IEC62236-5 (EN50121-5)	DC input and output, signal, control port: ±1KV/±2KV, AC input and output port: ±2KV/±4KV					Perf. Criteria A

SPECIFICATIONS

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We reserve the right to change specifications based on technological advances.

SPECIFICATION		TEST CONDITIONS			Min	Typ	Max	Unit
SAFETY CHARACTERISTICS (Cont.)								
EMS	CS	General Standard	IEC/EN61000-4-6	10Vr.m.s				Perf. Criteria A
		Industry/Light Industry	IEC61000-6-1	AC input and output, signal, control port: 0.15M-80MHz, 3V				Perf. Criteria A
			IEC61000-6-2	AC input and output, signal, control port: 0.15M-80MHz, 10Vr.m.s				Perf. Criteria A
		Wind Power	NB/T 31017-2011	0.15M-80MHz, 10Vr.m.s				Perf. Criteria A
		Classification Society	GD22-2015	0.15M-80MHz, 10Vr.m.s, Low frequency conduction immunity: AC input port, harmonic <15 times 10%Un, harmonic = 15-100 times, from 10%Un to 1%Un, harmonic = 100-200 times, 1%Un; DC input port, 10%Un, 50-10kHz, apply power ≤2W (The applied voltage can be reduced)				Perf. Criteria A
		Power Station/Subsation	IEC61850-3	AC DC input, output signal, control port, PE port: 0.15M-80MHz, 10Vr.m.s				Perf. Criteria A
			IEC61000-6-5	AC, DC input, output, signal, control port: 0.15M-80MHz, 10Vr.m.s				Perf. Criteria A
		Railway	IEC62236-3-2 (EN50121-3-2)	AC/Battery input, signal, control port: 0.15M-80MHz 10Vr.m.s				Perf. Criteria A
			IEC62236-4 (EN50121-4)	AC, DC input, output, signal, control port: 0.15M-80MHz, 10Vr.m.s				Perf. Criteria A
			IEC62236-5 (EN50121-5)	AC, DC input, output, signal, control port, PE port: 0.15M-80MHz, 10Vr.m.s				Perf. Criteria A
	Voltage dips, short interruptions and voltage variations immunity	General Standard	IEC/EN61000-4-11	0%, 70%				Perf. Criteria B
		Industry/Light Industry	IEC61000-6-1	0%, 0.5/1 period, 70%, 25/30 period @50/60Hz, 0%, 250/300 period @50/60Hz				Perf. Criteria B and C
			IEC61000-6-2	0%, 1 period, 0%, 250/300 period @50/60Hz, 40%, 10/12 period @50/60Hz				Perf. Criteria B and C
		Power Station/Subsation	IEC61850-3	AC Input and output port: 100%, 5/50 period, DC input and output port: 100%, 0.05s				Perf. Criteria B
			IEC61000-6-5	AC input and output port: 70%, 1 period, 40%, 50 period, 0%, 5 period, 0%, 50 period				Perf. Criteria B
	Power Frequency Magnetic Field	General Standard	IEC/EN61000-4-8	100A/m continuous, 1KA/m 1s				Perf. Criteria A
		Industry/Light Industry	IEC61000-6-1	50/60Hz, 30A/m				Perf. Criteria A
			IEC61000-6-2	50/60Hz. 30A/m				Perf. Criteria A
		Power Station/Subsation	IEC61850-3	100A/m continuous, 1KA/m 1s				Perf. Criteria A
			IEC61000-6-5	100A/m continuous, 1KA/m 1s				Perf. Criteria A
		Railway	IEC62236-4 (EN50121-4)	50Hz, 100A/m, DC 300A/m				Perf. Criteria A
			IEC62236-5 (EN50121-5)	50Hz, 100A/m, DC 300A/m				Perf. Criteria A
	Intercom Interference Test		MS-SOP-DQC-007					Perf. Criteria B

NOTES

1. When the output voltage rises, the total power of the product should not exceed the rated power.
2. For power consumption curve, over current protection mode and short circuit protection, see product characteristic curve.
3. Tip and barrel method is used for ripple and noise test, output parallel 47uF electrolytic capacitor and 0.1uF ceramic capacitor, contact factory for more information.
4. Over temperature protection: put the product into a high temperature box. After the ambient temperature stabilizes, increase the temperature slightly (3°C to 5°C) and the load remains unchanged. After the product reaches thermal equilibrium, increase the temperature until the product triggers over temperature protection.
5. Isolation test for ⏚ need to remove the screw at the mark ⏣. Remove the screw at the mark ⏣ when the product is subjected to withstand voltage test. The gas discharge tube built into the device effectively protects the power supply against damage by asymmetric disturbance variables (eg EN 61000-4-5). Each power supply continuous withstand voltage test will cause extremely high load to the power supply. Therefore, unnecessary loading or damage to the power supply due to excessive test voltage should be avoided. If necessary, disconnect the gas discharge tube built into the device to use a higher test voltage. After successful completion of the test reconnect the gas discharge tube. Contact factory for specific operation methods.
6. The power supply has two converters with two different switching frequencies. Intermittent operation mode will be entered in light load or no load.
7. Needs to be used with UPS test at our factory
8. Contact factory for related functions, LED signal, control logic, and usage instructions.
9. When multiple prototypes are working in uniform current, the output voltage deviation of each prototype working separately shall not exceed 100mV.
10. Perf Criteria:
    - A. The equipment shall continue to operate as intended without operator intervention
    - B. After the test, the equipment shall continue to operate as intended without operator intervention.
    - C. Loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions
11. With filter module supporting shipment. Contact factory for suggestion.
12. Room temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m.
13. In order to improve the efficiency at high input voltage, there will be audible noise generated, but it does not affect product performance and reliability.
14. Customization is available, please contact factory.
15. Product customization is available. Please contact factory.
16. The out case needs to be connected to PE (⏚) of system when the terminal equipment is operating.
17. Key to adjust Δ key for voltage increase ▽ key for voltage decrease
18. Products classified to ISO14001 and related environmental laws and regulations and should be handled by qualified units.

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

CHARACTERISTIC CURVES

Temperature vs Output Power

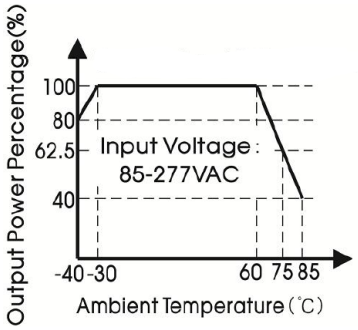


Fig. 1

Temperature vs Output Power

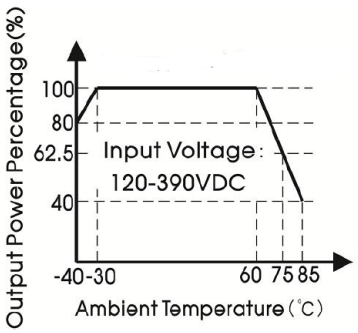


Fig. 2

Input Voltage vs Output Power

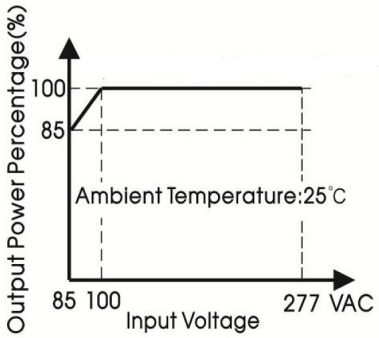


Fig. 3

Input Voltage vs Output Power

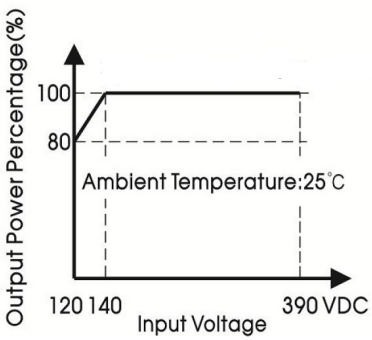


Fig. 4

Over-Current/Short Circuit Protection Curve

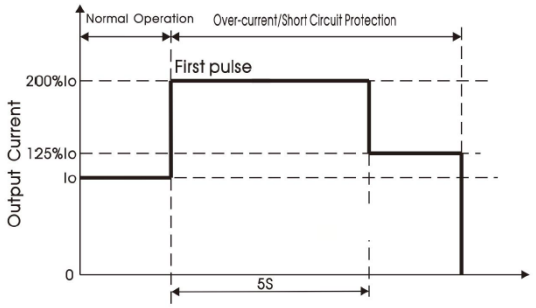


Fig. 5

Transient Peak Current Curve (Typ.)

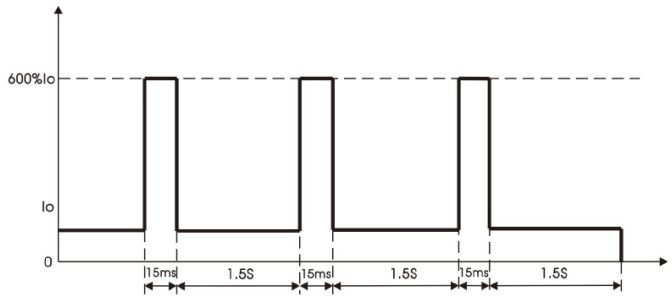


Fig. 6

AC-OK

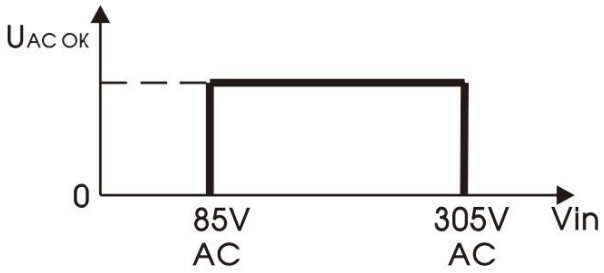


Fig. 7

DC OK Behavior Curve (Typ.)

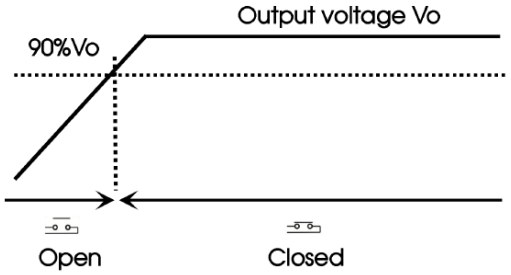


Fig. 8

AC vs AC-OK vs Uo

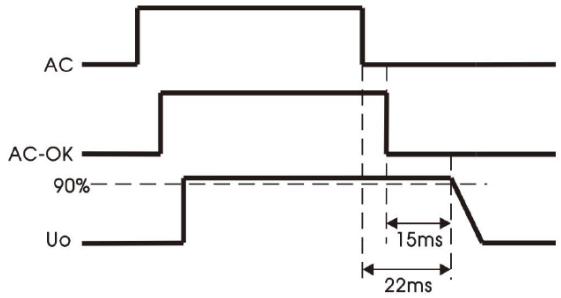


Fig. 9

ON/OFF

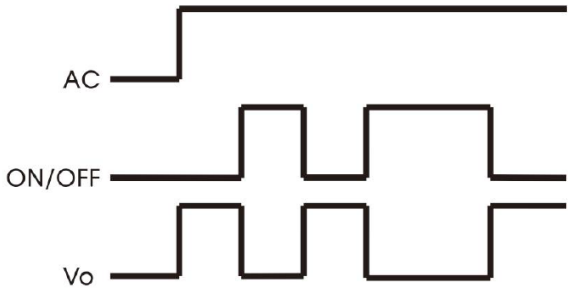


Fig. 10

PF vs Input Voltage (Full Load)

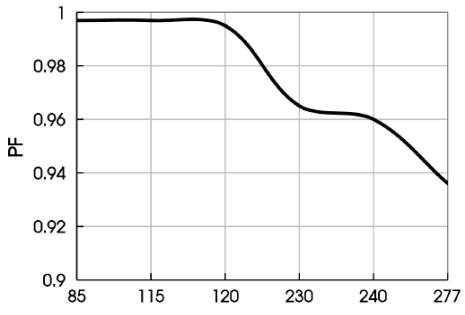


Fig. 11

PF vs Output Load (Vin=230VAC)

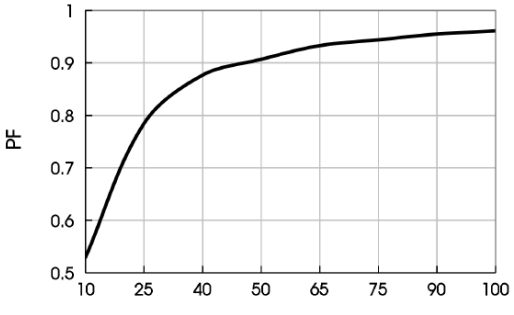


Fig. 12

THD vs Input Voltage (Full Load)

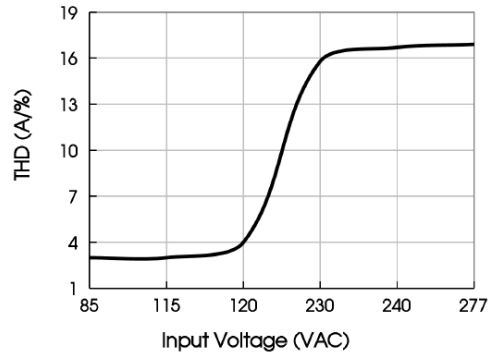


Fig. 13

THD vs Output Load (Vin=230VAC)

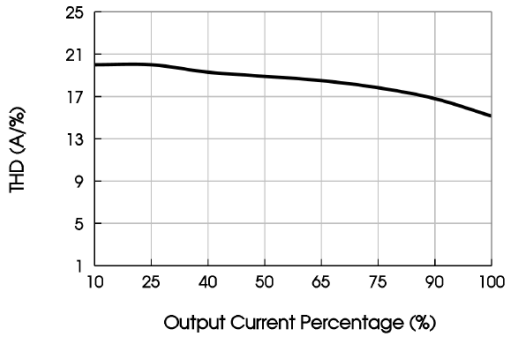


Fig. 14

Load vs Input Voltage (Full Load

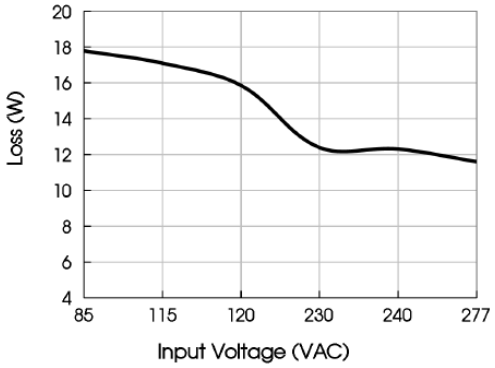


Fig. 15

Load vs Output Load (Vin=230VAC)

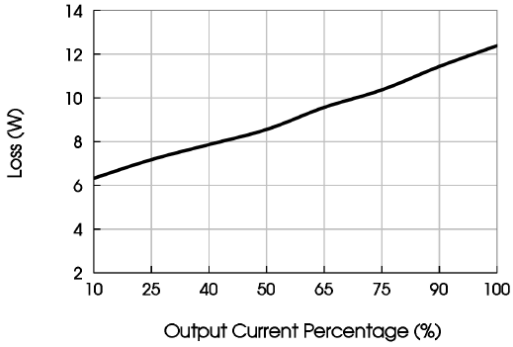


Fig. 16

Note:
1. All curves are for 24V output, measured at input 230VAC, 50Hz output Io ambient temperature 25°C, unless otherwise stated.
2. With an AC input voltage between 85-100VAC and a DC input between 120-140VDC the output power must be derated as per the temperature derating curves
3. Fig. 1, 2, 4, and 5 are carried out under the condition of 25CFM at a high temperature of 75~85°C
4. This product is suitable for applications using natural air cooling, for applications in closed environment, please contact factory.

Efficiency vs. Input Voltage (Full Load)

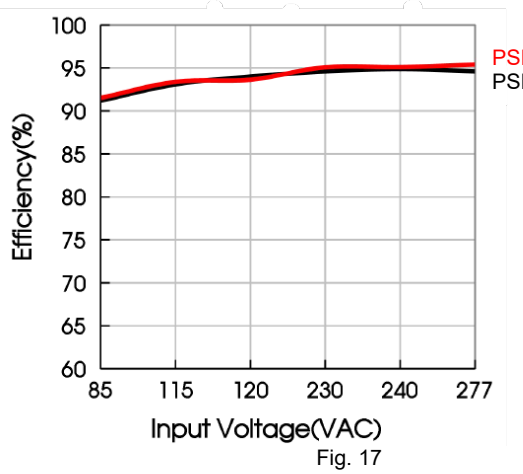


Fig. 17

Efficiency vs Output Load (Vin=230VAC)

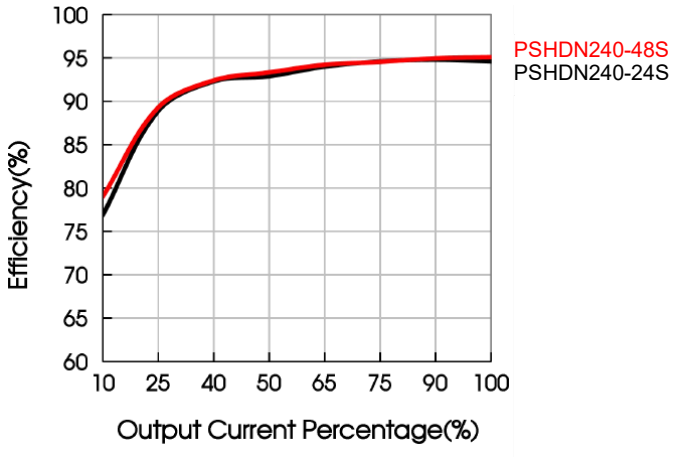
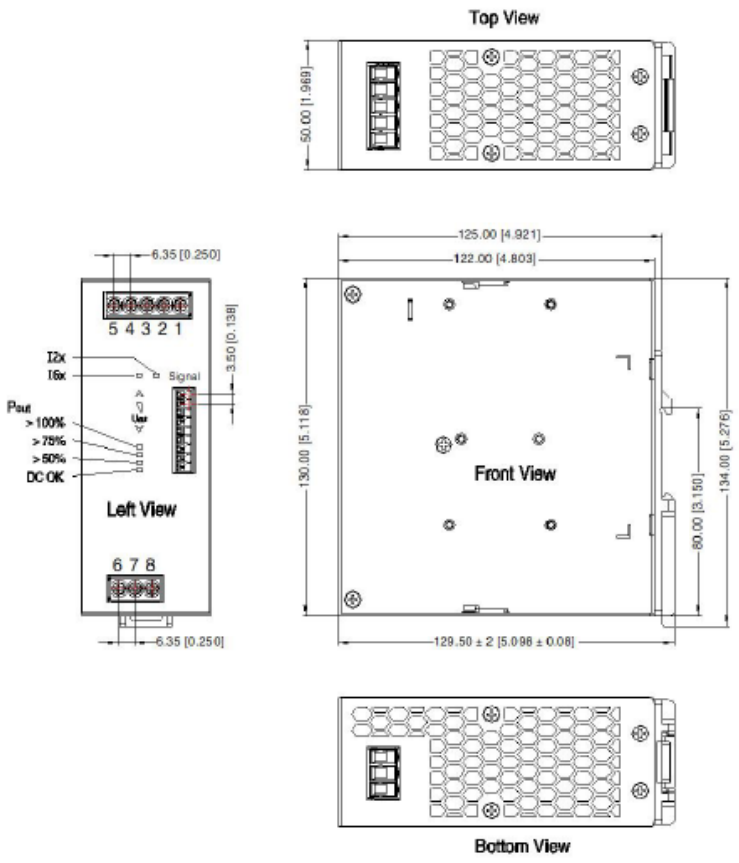


Fig. 18

MECHANICAL DRAWINGS



THIRD ANGLE PROJECTION

Pin-Out

Pin	Mark
1	-Vo
2	-Vo
3	-Vo
4	+Vo
5	+Vo
6	⏚
7	AC (N)
8	AC (L)

Signal	Pin-Out	
	Pin	Mark
S-1 S-2 S-3 S-4 S-5 S-6 S-7 S-8 S-9	S-1	DC
	S-2	OK
	S-3	RS485-A
	S-4	RS485-B
	S-5	ON/OFF
	S-6	SGND
	S-7	AC OK
	S-8	PCS
	S-9	PCS

Notes:
Unit: mm [inch]
Wire Range: Input: 22-10AWG (12-10AWG for pin6)
Output: 24V: 14-10AWG
48V: 18-10AWG
Signal: 24-16AWG
Tightening Torque: Max 0.5N·m
Mounting Rail: TS35, rail needs to connect safety ground
General Tolerances: ±1.00 [±0.039]

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