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FEATURES

- Wide Input Voltage Range: 85~264VAC/100~400VDC
- Ultra-Slim SIP Package with 90° Bent Pins

Rev D

- Industrial Grade

DESCRIPTION

- 4KVAC High Isolation Voltage
- Compact Size
- Over Voltage, Over Current and Short Circuit Protection
- RoHS Compliant
- See PSLS05 Series for Straight Pin Options
 IEC62368, UL62368, and EN62368 Safety Approvals

Size: 1.58in x 0.79in x 74in

The PSLSF05 series of AC/DC converters offers up to 5 watts of output power in an ultra slim SIP package with 90 degree bent pins. This series consists of single output models with a wide input voltage range of 85~264VAC/100~400VDC. Each model in this series is industrial grade, has isolation of 3000VAC, and is RoHS compliant. This series also has IEC62368, UL62368, and EN62368 safety approvals.

MODEL SELECTION TABLE						
Model Number	Input Voltage Range	Output Voltage	Output Current	Maximum Capacitive Load	Efficiency	Output Power
PSLSF05-15B03		3.3V	1A	2200µF	67%	3.3W
PSLSF05-15B05	85-264VAC (100-400VDC)	5V	1A	1500µF	74%	
PSLSF05-15B09		9V	0.56A	680µF	75%	
PSLSF05-15B12		12V	0.42A	470µF	76%	5W
PSLSF05-15B15		15V	0.34A	330µF	77%	
PSLSF05-15B24		24V	0.21A	100µF	79%	

SPECIFICATIONS

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

SPECIFICATION	TES	T CONDITIONS	Min	Тур	Max	Unit		
INPUT SPECIFICATIONS			'					
	Conventional		100		240	VAC		
Input Voltage Range	AC Input		85		264	VAC		
	DC Input	100		400	VDC			
Input Frequency			47		63	Hz		
Input Current	115VAC				0.2			
	230VAC			0.1	A			
Inrush Current	115VAC	115VAC				•		
iniush Current	230VAC			10		— A		
Leakage Current	CY0 is 1nF/400VAC			0.25	mA			
Hot Plug				Unavailable				
OUTPUT SPECIFICATIONS								
Output Voltage				See	Table			
Voltago Accuracy	3.3V Model			±2	±3	- %		
Voltage Accuracy	All Other Models			±1	±2			
Line Regulation	Full Load			±0.5		%		
Load Regulation	10%-100% Load			±1	±1.5	%		
Output Power					Table			
Output Current			See Table					
Maximum Capacitive Load				1	Table			
Ripple & Noise	20MHz bandwidth (peak-peal	k value)		50	150	mV		
Temperature Drift Coefficient				±0.02		%/°C		
Stand-By Power Consumption					0.5	W		
Min Load			0			%		
Hold Up Time	115VAC Input	10	15		mS			
	230VAC Input	65	75					
PROTECTION								
Short Circuit Protection			(Continuous, 3	Self-Recove	ry		
Over Current Protection	≥150%lo, Self-Recovery				1			
Over Voltage Protection		3.3V/5V Models		≤7.5		- V		
		9V Models		≤15				
	Output Voltage Clamp	12V/15V Models		≤20				
		24V Models		≤30				



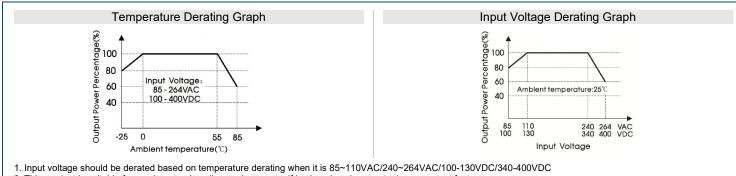
SPECIFICATIONS							
All specifications are based on 25°C, Humidity <75%, Nominal Input Voltage, and Rated Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.							
SPECIFICATION		EST CONDITIONS	Min	Тур	Max	Unit	
ENVIRONMENTAL SPECIFICATIO				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Operating Temperature			-25		+85	°C	
Storage Temperature			-40		+105	°C	
Storage Humidity					85	%RH	
	Wave-Soldering			260±5°C; time: 5~10s			
Welding Temperature	Manual-Welding				360±10°C: time:3~5s		
	-25°C~0°C	0.8					
Deven Devertiere	+55°C~+85°C		1.33			%/°C	
Power Derating	85VAC-110VAC		0.8			0/ 0/00	
	240VAC-264VAC		1.67			%/VAC	
MTBF	MIL-HDBK-217F @25°C		300,000			Hours	
GENERAL SPECIFICATIONS							
Efficiency	230VAC, % typ.		See Table				
Switching Frequency				100		kHz	
Isolation Voltage	Input to Output, Test Time	e: 1min (leakage current setting value: 5mA)	4000			VAC	
PHYSICAL SPECIFICATIONS							
Weight					z (7g)		
Dimensions (L x W x H)				1.58 x 0.79 x 0.74in (40 x 20 x 18.8mm)			
Cooling			Free Air C	Convection			
SAFETY CHARACTERISTICS							
Safety Standard		IEC62368, EN62368, UL62368 ⁽¹⁾					
Safety Regulated Certifications	IEC62368, EN62368, UL62368 ⁽¹⁾						
Safety Class		Class II CISPR22/EN55032 ⁽²⁾					
EMI	CE	Class A					
	CISPR22/EN55032 ⁽³⁾		Class E				
	RE	CISPR22/EN55032 ⁽²⁾				Class B	
ESD	IEC/EN61000-4-2	Contact ±6kV				f. Criteria B	
RS	IEC/EN61000-4-3	10V/m				f. Criteria A	
EFT	IEC/EN61000-4-4	±2kV ⁽²⁾	Perf. Criteria B			-	
	IEC/EN61000-4-4	±4kV ⁽³⁾				f. Criteria B	
Surge	IEC/EN61000-4-5	Line to Line ±1kV ⁽²⁾	-			f. Criteria B	
-	IEC/EN61000-4-5	Line to Line ± 1 kV/line to ground ± 2 KV				f. Criteria B	
CS	IEC/EN61000-4-6	10Vr.m.s. ⁽³⁾			Per	f. Criteria A	
Voltage Dips, Short Interruptions, Voltage Variations Immunity	IEC/EN61000-4-11	0%-70%			Per	f. Criteria B	

NOTES

- This product is Listed to applicable standards and requirements by UL. 1.
- 2. See Fig. 1 for typical application circuit/recommended circuit
- 3. See Fig. 2 for recommended circuit.
- Module required dispensing fixed after assembled. 4.
- 5. This part is open frame, at least 6.4mm safety distance between the primary and secondary external components of the module is needed to meet the safety requirements.
- 6. Customization is available.

Products should be classified according to ISO14001 and related environmental laws and regulations and should be handled by qualified units. 7. Due to advances in technology, specifications subject to change without notice

CHARACTERISTIC CURVES

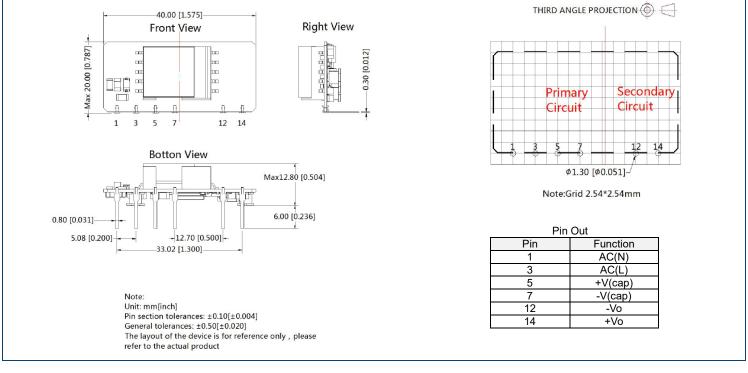


2. This product is suitable for use in natural cooling environments. If in closed environment, please contact factory.

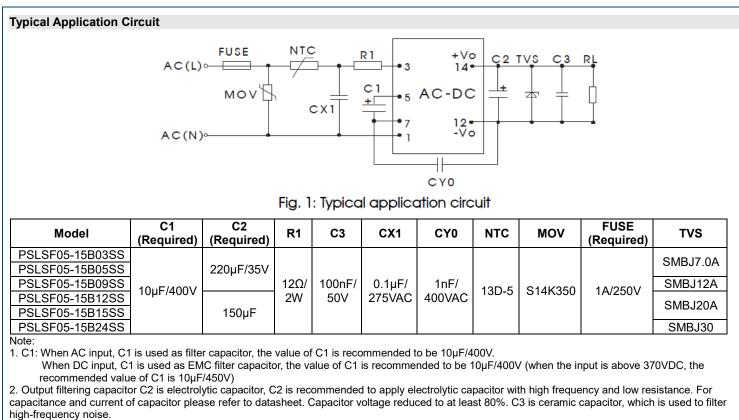
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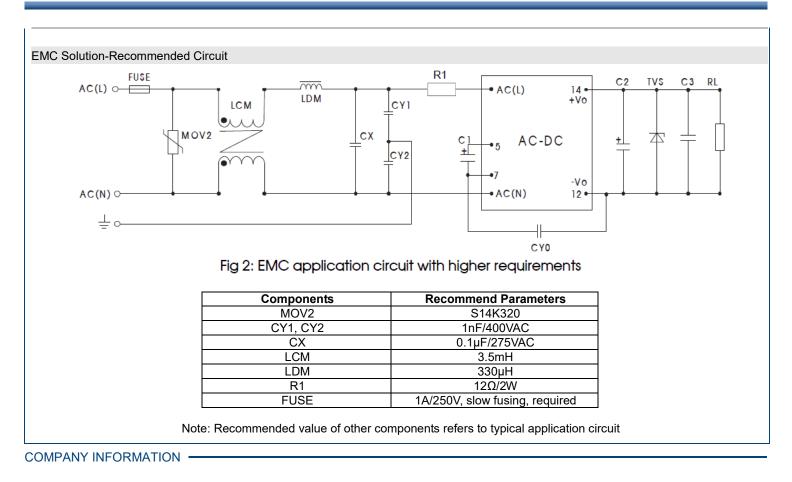
MECHANICAL DRAWINGS



DESIGN REFERENCE







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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