



Size: 2.50in x 3.50in x 1.18in (63.50mm x 88.9mm x 1.18mm)

FEATURES

- Universal Input 85-264VAC
- Fully Encapsulated Plastic Case for PCB, Chassis, and DIN Rail
 - Mounting
- Protection Class II as per IEC/EN60536

DESCRIPTION

- Over Load, Over Current, and Short Circuit Protection
- RoHS & REACH Compliant
- I/O Isolation 4000VAC with Reinforced Isolation
- Industrial and Medical Safety Approvals

The PSAPM-40 series of AC/DC industrial and medical power modules offers 40 watts of output power in a fully encapsulated plastic PCB, chassis, or DIN Rail mounted case. This series consists of single and dual output models with universal input voltage range of 85-264VAC and I/O isolation of 4000VAC with reinforced isolation. Each model in this series is RoHS & REACH compliant, has over load, over current, and short circuit protection, and has industrial and medical safety approvals. Please call factory for order details.

MODEL SELECTION TABLE									
	Single Output								
Model Number	del Number Input Voltage		Output	Input Current		Maximum Capacitive	Efficiencv	Output Power	
	Range	Output Voltage	Current	115VAC, 60Hz	230VAC, 50Hz	Load	Enciency		
PSAPM-40S05		5VDC	8000mA	716mA	429mA	8000μF	81%		
PSAPM-40S12	85~264VAC	12VDC	3330mA	689mA	414mA	3900μF	84%	10 Matte	
PSAPM-40S15	(120~370VDC)	15VDC	2660mA	680mA	408mA	3900μF	85%	40 Watts	
PSAPM-40S24		24VDC	1660mA	687mA	413mA	680µF	84%		

MODEL SELECTION TABLE								
Dual Output								
Model Number	Input Voltage Range	Output Voltage	Output Current	Input Current 115VAC, 60Hz 230VAC, 50Hz		Maximum Capacitive Load ⁽²⁾	Efficiency	Output Power
PSAPM-40D12	85~264VAC	±12VDC	±1660mA	687mA	413mA	1500#μF	84%	40 Watts
PSAPM-40D15	(120~370VDC)	±15VDC	±1300mA	680mA	408mA	1000#μF	85%	40 W alls

SPECIFICATIONS

All specifications are based on 25°C, Resistive Load, 115VAC, 60Hz Input Voltage, and After Warm Up Time Rated Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.

SPECIFICATION		T CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS							
AC Input Voltage Range	All Models	85		264	VAC		
DC Input Voltage Range	All Models		120		370	VDC	
Input Frequency			47		440	Hz	
Inrush Current	@115VAC, Cold start at 25°			30			
inirush Current	@230VAC, Cold start at 25°	°C			60	A	
No Load Power Consumption					0.3	W	
OUTPUT SPECIFICATIONS							
Output Voltage				See	Table		
Voltage Setting Accuracy				±2.0		%	
Line Regulation	Vin=Min. to Max. @Full Loa	d		±0.5		%	
Load Regulation	lo=0% to 100%	Single Output Models		±1.0		%	
	10-078 10 10078	Dual Output Models		±2.0		70	
Overshoot					5	%	
Output Power				See	Table		
Output Current				See	Table		
Minimum Load			No	Minimum Lo	ad Require	ment	
Maximum Capacitive Load				See	Table		
Disple & Noise (20MUz handwidth) ⁽³⁾	5V Output Models			1.5	1.8	%Vp-p of	
Ripple & Noise (20MHz bandwidth) ⁽³⁾	Other Output Models			1.0	1.3	Vo	
	115VAC, 60Hz		25				
Hold-Up Time	230VAC, 50Hz		80		ms		
Temperature Coefficient			±0.02		%/°C		



SPECIFICATIONS

	We reserve the righ	TEST COND		a connological a		Ture	Max	Linit	
SPECIFICATION PROTECTION		TEST COND	TIONS		Min	Тур	Max	Unit	
Short Circuit Protection	Hiccup Mode					Automatic	Recovery		
Over Load Protection ⁽⁴⁾	85VAC, Hiccup Mode,	105	Automatic	Recovery	% Inom.				
Over Voltage Protection	Zener Diode Clamp	Automatic Necov	ely		105	120		% of Vo	
ENVIRONMENTAL SPECIFICAT						120		70 01 00	
Operating Ambient Temperature					-40		+80	°C	
Storage Temperature					-40		+95	°C	
Humidity	Non-Condensing				-40		95	%RH	
Power Derating	Above +60°C					1.5		W/°C	
3	Shutdown, Internal IC	Junction Temper:	ature			1.0		VV/ C	
Thermal Shutdown	Automatic Recovery, In								
Lead Temperature	1.5mm from case for 1		in romporataro				260	°C	
Cooling ⁽⁵⁾		0000.				Natural Co			
MTBF	Calculated per MIL-HD	BK-217E @25℃	Ground Benian			200,000	51110001011	Hours	
GENERAL SPECIFICATIONS	Calculated por MIE-TID		, croand bonigh						
Typical Efficiency	@Max. Load, 115VAC					See T	able		
Switching Frequency						130		KHz	
Isolation Voltage	Reinforced Insulation,	Rated for 60 Sec	onds		4000			VACrms	
Isolation Resistance	500VDC				1000			MΩ	
Leakage Current						80		μA	
PHYSICAL SPECIFICATIONS									
	PCB Mount					10.93oz	(310g)		
Weight	Chassis Mount				11.29oz (320g)				
5	DIN Rail Mount					13.19oz			
						3.50in x 2.50in x 1.18in			
	PCB Mount					(88.9mm x 63.5mm x 1.18mm)			
Dimensions(L, x) M(x, L)	Chassis Mount DIN Rail Mount					4.41in x 2.5	1in x 1.34in		
Dimensions (L x W x H)						2mm x 63.8ı	mm x 34.1n	nm)	
						4.41in x 2.5	1in x 1.77in		
		DIN Rail Mount				2mm x 63.8i			
Case Material						sin (flammab			
Pin Material	PCB Mount	PCB Mount				Alloy with Go		er Nickel	
						Subp	late		
SAFETY CHARACTERISTICS									
	A.N.I		0950-1 ⁽⁹⁾ , CSA C2	2.2 No. 60950-1					
Safety Standards	ANSI/AAMI ES60601-1, CAN/CSA-C22.2 No. 60601-1 IEC/EN 60950-1, IEC/EN 60601-1 3 rd Edition 2xMOPP								
-	UL508, CSA C22.2 No. 107.1-01								
	UL/cUL 60950-1 recognition (UL Certificate) ⁽⁹⁾ IEC/EN 60950-1 (CB-Report), UL/cUL 508 listed certificate ANSI/AAMI ES60601-1 2xMOPP recognition (UL Certificate) IEC/EN 60601-1 3 rd Edition (CB-Report)								
Safety Approvals ⁽⁶⁾									
EMI	Conduction and	EN55011, EN50	022, EN55032, EN	161000-6-4,				Class E	
EMI	Radiation	EN61000-6-3, F							
	ESD EN61000-4-2 Alr±15kV, Contact±8kV							ŀ	
	Radiated Immunity EN61000-4-3 10V/m							ŀ	
	Fast Transient EN61000-4-4 ±2kV								
	Surge EN61000-4-5 ±1kV								
EMS	Conducted Immunity EN61000-4-6 10Vrms							1	
	PFMF	EN61000-4-8 30A/m						1	
		EN61000-4-11 0% of 230VAC 0.5 Cycle							
	Dips & Interruptions	0% of 230VAC 1 Cycle						<i>I</i>	
			70% of 230VAC	25/30 Cycle				/	
			0% of 230VAC	250/300 Cycle				E	

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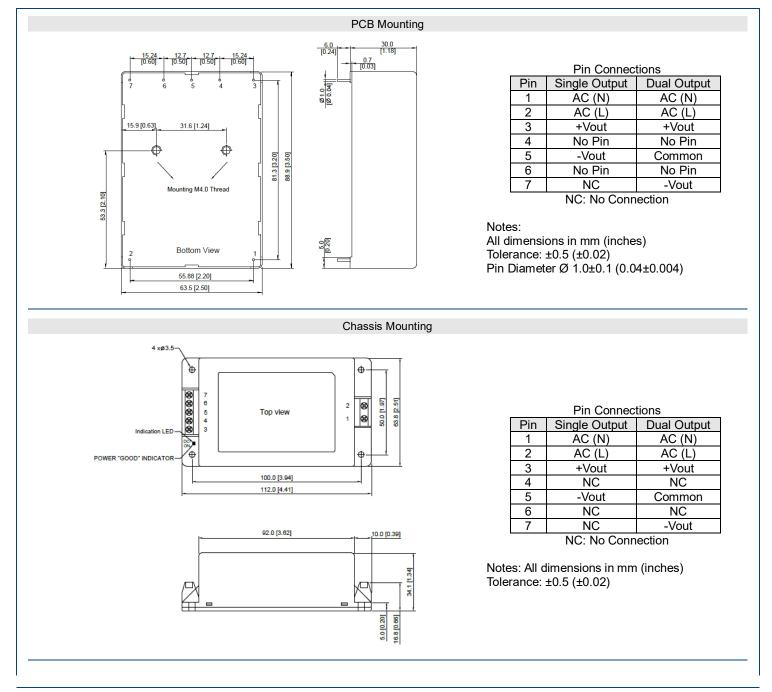


NOTES

- 1. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications that necessitate specific safety regulatory standards other than the ones listed in this datasheet.
- 2. # for each output
- 3. Ripple & Noise measured with a 0.1 μ F/50V MLCC and a 1 μ F/50V aluminum electrolytic.
- 4. Long term over load conditions may cause damage.
- 5. Natural convection is about 20LFM but is not equal to still air (0 LFM).
- 6. Safety approvals cover frequency 47-63Hz.
- 7. Other input and output voltages may be available, please contact factory.
- 8. It is recommended to protect the converter by a slow blow fuse in the input supply line.
- 9. This product is Listed to applicable standards and requirements by UL.

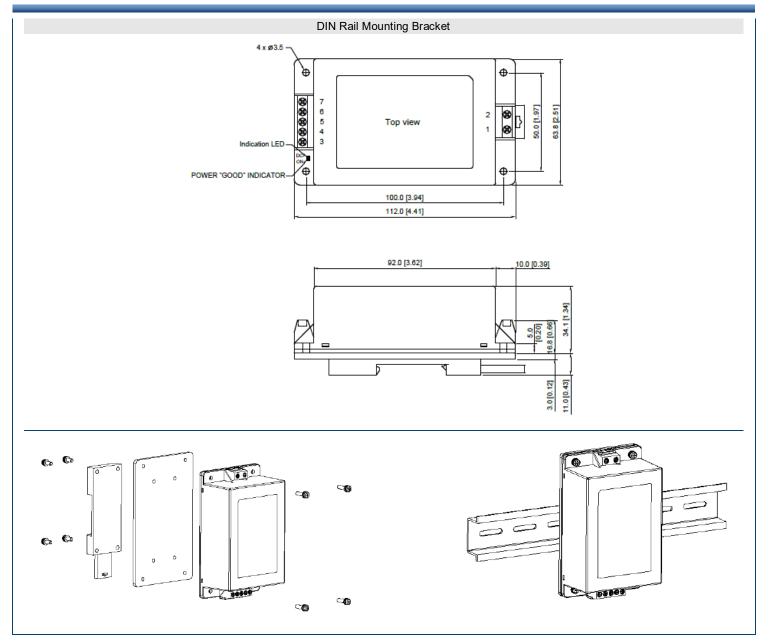
Due to advances in technology, specifications subject to change without notice.

MECHANICAL DRAWINGS





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MODEL NUMBER SETUP

PSAPM	-	40	S	05	С	DN
Series Name		Output Voltage	Output Quantity	Ouptut Voltage	Chassis Mount	Din Rail
			S: Single	05: 5VDC 12: 12VDC 15: 15VDC 24: 24VDC	C: Chassis Mount	DN: Din Rail Mount
			D: Dual	12 : ±12VDC 15 : ±15VDC		



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.

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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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