



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PSD-A40W Series

40 Watts Compact Size DIN-Rail Power Supply



Features

- Extra slim design with 40 watts output
- High power density: 2.27 watts per inch³
- Input range 85 ~ 264 V_{AC}/ 110 ~ 375 V_{DC}
- Power boost with 150% peak load
- Full protection with auto recovery function
- Full load output up to 60°C
- Adjustable output



Specifications

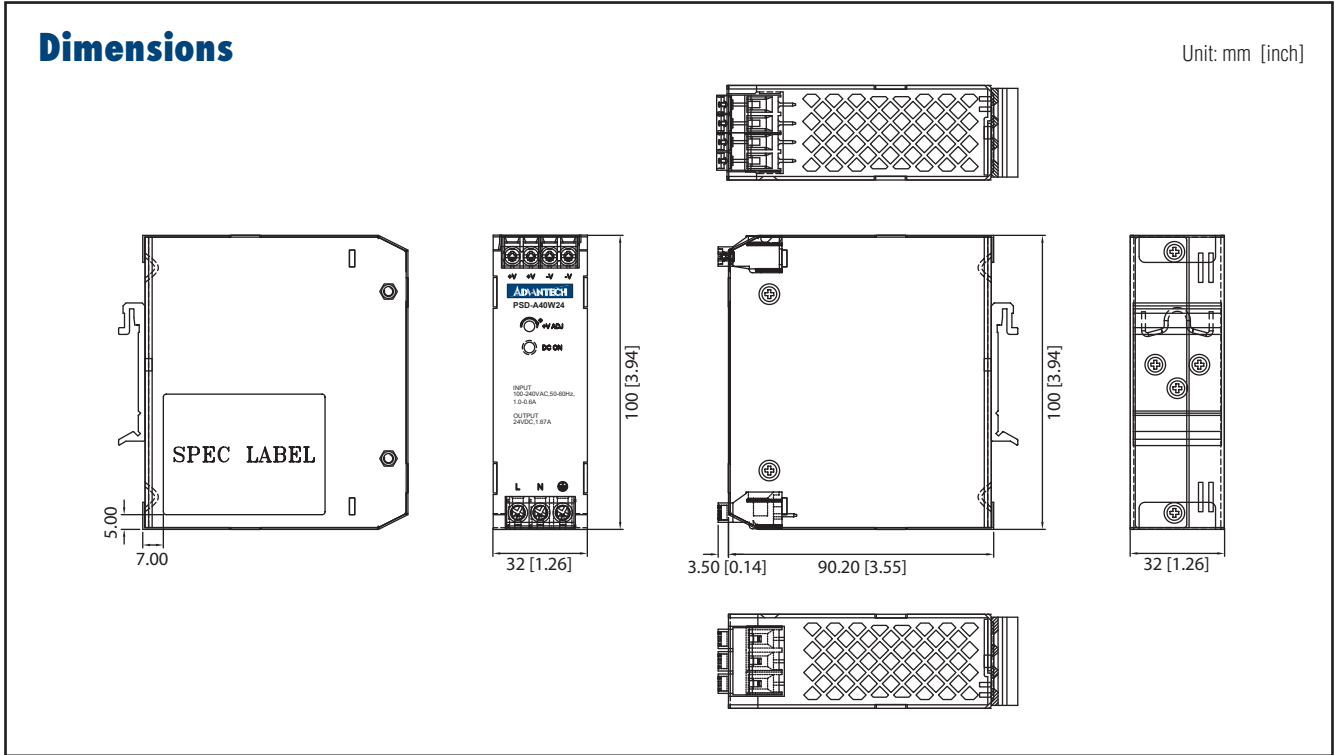
	Model	PSD-A40W12	PSD-A40W24	PSD-A40W48
Output	Output Voltage	12V _{DC}	24V _{DC}	48V _{DC}
	Output Voltage Adjustment Range	12V _{DC} to 14V _{DC}	22V _{DC} to 27V _{DC}	46V _{DC} to 50V _{DC}
	Rated Current	3.34A	1.67A	0.84A
	Peak Current (Max Output Current, 3 seconds)	5.00A	2.50A	1.25A
	Efficiency (typical)	88%	89%	89%
	Output Power	40 Watts		
	Accuracy (%)	±1%		
	Max. Ripple & Noise (mVp-p)	120 mVp-p		
	Line Regulation	±1%		
	Load Regulation	±1%		
	Hold-up Time	115V/60Hz: 16ms Minimum; 230V/50Hz: 20ms. Minimum		
	Input	Input Voltage	85 ~ 264 V _{AC} ; 110 ~ 375 V _{DC}	
Input Frequency		47 ~ 63 Hz		
Input Current		< 0.93 A @ 115V _{AC} , < 0.40 A @ 230V _{AC}		
Max. Inrush Current		40A @ 230V _{AC} , cold start @ 25°C and full load		
Leakage Current		< 1 mA when power supply is connected to 240V _{AC} /60Hz		
Protection	OVP (Over Voltage Protection)	16V max	35V max	55V max
	OCP (Output Peak Current Protection, 3-5 sec.)	5.00A	2.50A	1.25A
	SCP (Short Circuit Protection)	< 0.1 ohm		
	OTP (Over Temperature Protection)	100 ± 10%		
Environment	Operating Temperature	-25 ~ 70°C (Please Refer to Power Derating Curve)		
	Cold Start	-40°C		
	Power Derating	Full load to 60°C; output power derated 2.5% per °C		
	Operating Humidity	5 to 95% RH, non-condensing		
	Storage Temperature	-40 ~ 85 °C		
	Operating Altitude	5,000 m		
	Shock Test (Non-Operating)	IEC60068-2-27, 30G (300m/S ²) for a duration of 18ms		
Vibration Test (Non-Operating)	IEC60068-2-6, 10Hz to 150Hz @ 50m/S ² (5G peak); 90 min per axis for all X, Y, Z direction			
Insulation	Withstand Voltage	I/P-O/P: 3KV _{AC} , I/P-FG: 2KV _{AC} , O/P-FG: 0.5KV _{AC} , O/P-DC OK: 0.5KV _{AC}		
	Insulation Resistance	AC input - DC output/FG, DC output - FG: >100M Ohms / 500V _{DC}		
Safety & EMC	CB/UL/TUV/CCC	IEC60950-1/GB4943.1		
	EMC Emission	EN55032 (CISPR32), EN61000-3-2, EN61000-3-3, EN55011		
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN61000-6-4, EN61204-3, heavy industry level, criteria A, SEMI F47		

Specifications

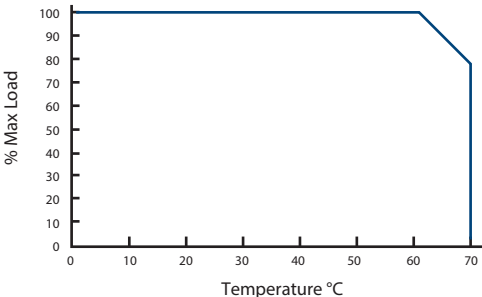
Mechanical	level, criteria A, SEMI F47	Metal Case
	Input Connector	3 Pins (300V/ 20A)
	Output Connector	4 Pins (300V/ 20A)
	Terminal Type	Screw Terminal (Screw Torque: 5.5 lb. per inch)
	Wire	AWG22-16
	Mounting Rail	Standard TS35 DIN-Rail in accordance with EN60715
	Cooling System	Conventional
	Dimensions (W x H x D)	32 x 100 x 90.2 mm / 1.26 x 3.94 x 3.54 inch
Reliability and Warranty	Weight	305±5 g / 0.671 lb.
	MTBF (hours)	500,000 (based on SR-332)
	Warranty	3 Years

Dimensions

Unit: mm [inch]



Derating Curve



PSD-A40W series full load to 60°C, with 2.5% derating per °C

Ordering Information

Part Number	Description
PSD-A40W12	12 V _{DC} / 40 Watts DIN-Rail Power Supply
PSD-A40W24	24 V _{DC} / 40 Watts DIN-Rail Power Supply
PSD-A40W48	48 V _{DC} / 40 Watts DIN-Rail Power Supply