

# 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 inch<sup>3</sup>
- Input range 85 ~ 264 V<sub>AC</sub>/ 110 ~ 375 V<sub>DC</sub>
- Power boost with 150% peak load
- Full protection with auto recovery function
- Full load output up to 60°C
- Adjustable output

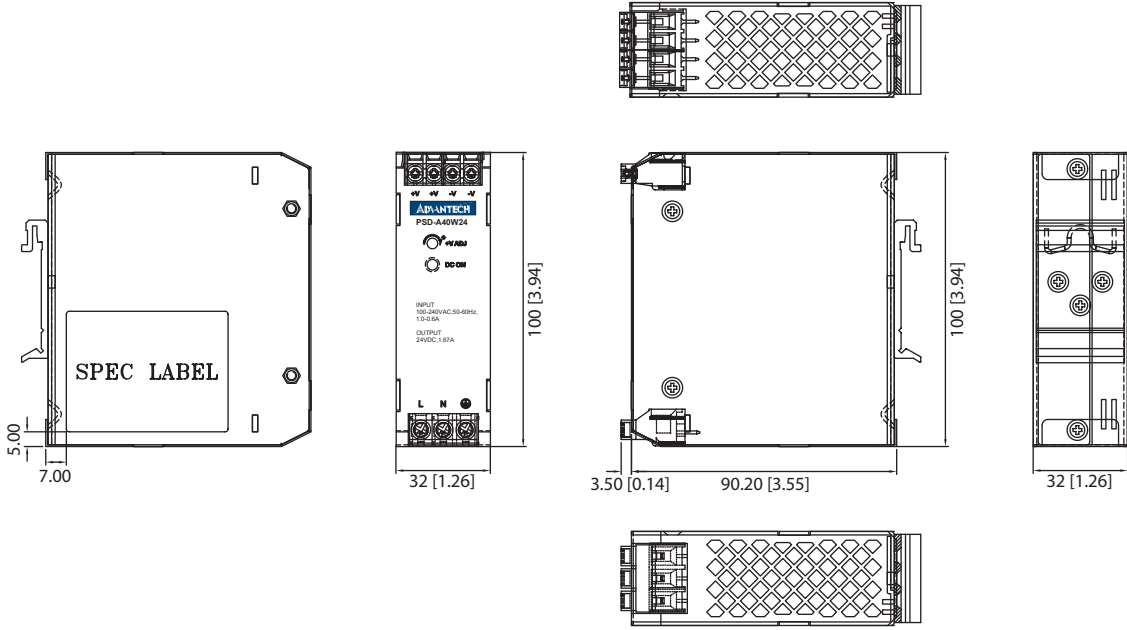


### Specifications

Output	Model	PSD-A40W12	PSD-A40W24	PSD-A40W48
	Output Voltage	12V <sub>DC</sub>	24V <sub>DC</sub>	48V <sub>DC</sub>
	Output Voltage Adjustment Range	12V <sub>DC</sub> to 14V <sub>DC</sub>	22V <sub>DC</sub> to 27V <sub>DC</sub>	46V <sub>DC</sub> to 50V <sub>DC</sub>
	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 <sub>AC</sub> ; 110 ~ 375 V <sub>DC</sub>	
Input Frequency		47 ~ 63 Hz		
Input Current		< 0.93 A @ 115V <sub>AC</sub> ; < 0.40 A @ 230V <sub>AC</sub>		
Max. Inrush Current		40A @ 230V <sub>AC</sub> , cold start @ 25°C and full load		
Leakage Current		< 1 mA when power supply is connected to 240V <sub>AC</sub> /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		
	Power Derating	Full load to 60°C; output power derated 2.5% per °C		
	Operating Humidity	95% RH, non-condensing		
	Storage Temperature	-40 ~ 85 °C		
	Operating Altitude	5,000 m		
	Shock Test (Non-Operating)	IEC60068-2-27, 30G (300m/S <sup>2</sup> ) for a duration of 18ms		
Insulation	Vibration Test (Non-Operating)	IEC60068-2-6, 10Hz to 150Hz @ 50m/S <sup>2</sup> (5G peak); 90 min per axis for all X, Y, Z direction		
	Dielectric Strength	AC input - DC output/FG: 1500 V <sub>AC</sub> for 1 minute		
Safety	Insulation Resistance	AC input - DC output/FG; DC output - FG: 50MΩ min.		
	CB/UL/TUV/CCC	IEC60950-1/GB4943.1		
Mechanical	Case Cover / Chassis	Metal chassis		
	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		
	Weight	305±5 g / 0.671 lb.		
Reliability and Warranty	MTBF (hours)	500,000 (base on SR-332) Issue 2		
	Warranty	3 Years		

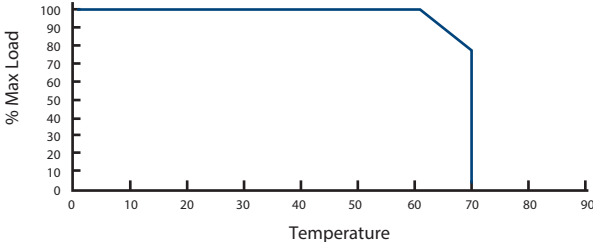
**Dimensions**

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 <sub>DC</sub> / 40 Watts DIN-Rail Power Supply
PSD-A40W24	24 V <sub>DC</sub> / 40 Watts DIN-Rail Power Supply
PSD-A40W48	48 V <sub>DC</sub> / 40 Watts DIN-Rail Power Supply