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











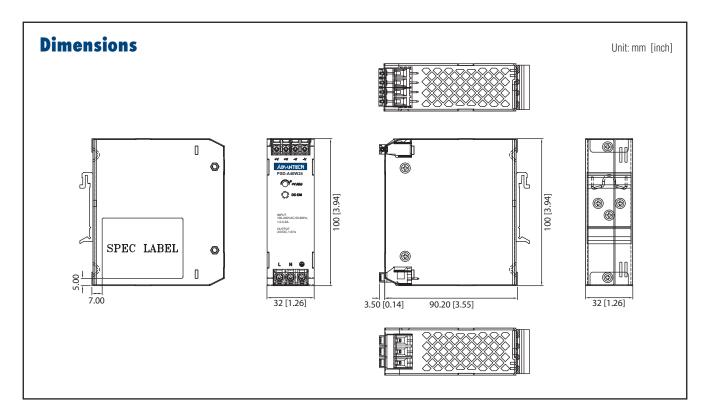




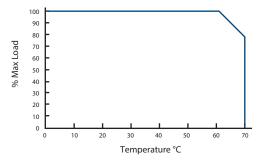
•		DOD 4401440	DOD 1401104	DOD 44011/40	
	Model	PSD-A40W12	PSD-A40W24	PSD-A40W48	
	Output Voltage	12V _{DC}	24V _{DC}	48V _{DC}	
	Output Voltage Adjustment Range	12V _{DC} to 14V _{DC}	22V _{DC} to 27V _{DC}	46V _{DC} to 50V _{DC}	
	Rated Current	3.34A	1.67A	0.84A	
	Peak Current (Max Output Current, 3 seconds)	5.00A	2.50A	1.25A	
Output	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 @ 115Vac, < 0.40 A @ 230Vac			
	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%			
	Operating Temperature -25 ~ 70°C (Please Refer to Power Derating Curve)				
	Cold Start	-40°C			
Environment	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/S²) for a duration of 18ms			
	Vibration Test (Non-Operating)	IEC60068-2-6, 10Hz to 150Hz @ 50m/S² (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

	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)	
Mechnical	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	MTBF (hours)	500,000 (based on SR-332)	
Warranty	Warranty	3 Years	



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 Vpc/ 40 Watts DIN-Rail Power Supply

Mouser Electronics

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Advantech:

96PSD-A40W24-MM