

IPS-D22A60W Series

60 Watt Compact DIN-Rail Power Supply



Features

- Compact design with 60 watt output
- Input range: 85 ~ 264 V_{AC}/100 ~ 375 V_{DC}
- Wide Operating Temperature -20-70 °C with full load up to 50 °C
- Cold start at -30 °C
- High efficiency up to 88% @ 230V_{AC}
- Supports OVP/SCP/OCP/OTP
- LED indicator for DC OK



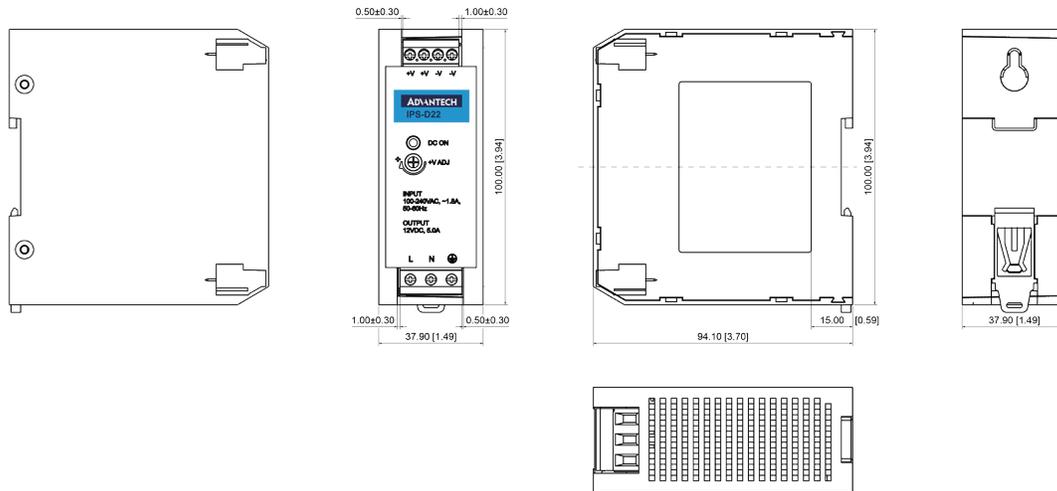
Specifications

Output	Model	IPS-D22A60W12V-A	IPS-D22A60W24V-A	IPS-D22A60W48V-A
	Output Voltage	12V _{DC}	24V _{DC}	48V _{DC}
	Output Voltage Adjustment Range	12V _{DC} to 15V _{DC}	24V _{DC} to 30V _{DC}	48V _{DC} to 56V _{DC}
	Rated Current	5.00A	2.50A	1.25A
	Efficiency (typical)	88% @ 230V _{AC}		
	Output Power	60 Watts		
	Accuracy (%)	±1%		
	Max. Ripple & Noise (mVp-p)	120 mVp-p		
	Line Regulation	±1%		
	Load Regulation	±1%		
Input	Hold-up Time	115V/60Hz: 16ms Minimum; 230V/50Hz: 50ms. Minimum		
	Input Voltage	85 ~ 264V _{AC} ; 100 ~ 375V _{DC}		
	Input Frequency	47 ~ 63 Hz		
	Input Current	< 1.8A @ 115V _{AC} ; < 1.0A @ 230V _{AC}		
	Max. Inrush Current	50A @ 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)	18V _{DC} max (Latch Mode)	36V _{DC} max (Latch Mode)	64V _{DC} max (Latch Mode)
	OCP (Over Current Protection)	5.25 ~ 7.5A	2.62 ~ 3.7A	1.3 ~ 1.8A
	SCP (Short Circuit Protection)	< 0.1 ohm		
	OTP (Over Temperature Protection)	Auto-Recovery		
	Operating Temperature	-20-70 °C (Please refer to power derating curve)		
Environment	Cold Start	-30 °C		
	Power Derating	Full load to 50 °C; output power derated 2% 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	Dielectric Strength I/P-O/P: 1.5KVAC, I/P-FG: 1.5KVAC, O/P-FG: 1.5KVAC		
Safety & EMC	Insulation Resistance	AC input - DC output/FG, DC output - FG: 50M Ohms / 500V _{DC}		
	CB/UL/TUV/CCC	IEC 62368-1, UL 62368-1, EN 62368-1, GB4943.1		
	EMC Emission	EN55032 (CISPR32), EN61000-3-2.3, EN61000-6-3, EN61000-6-4, EN61204-3 Class A		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61000-6-2, EN55035, EN61204-3 Class A, heavy industry level		
Mechanical Specifications	Case Cover / Chassis	Plastic		
	Connector	Input	3 Pins (300V/ 20A)	
		Output	4 Pins (300V/ 20A)	
	Wire	Input	AWG 18-12	
		Output	AWG 22-12	
	Terminal Type	Screw Terminal		
	Mounting Rail	Standard TS35 DIN-Rail in accordance with EN60715		
	Cooling System	Conventional		
	Dimensions (W x H x D)	37.9 x 100 x 94.1 mm / 1.49 x 3.94 x 3.70 in		
Weight	227±5 g / 0.50 lb.			
Reliability and Warranty	MTBF (hours)	500,000 (based on SR-332)		
	Warranty	3 Years		

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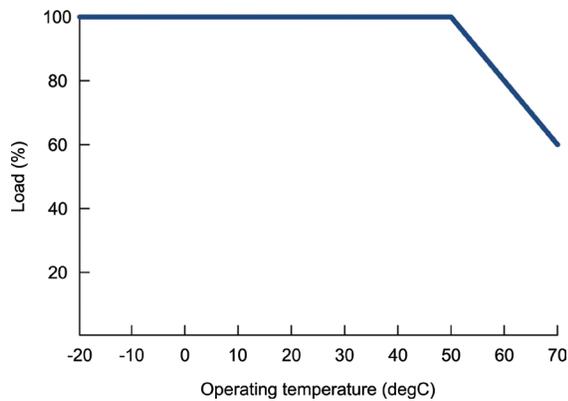
Dimensions

Unit: mm [inch]

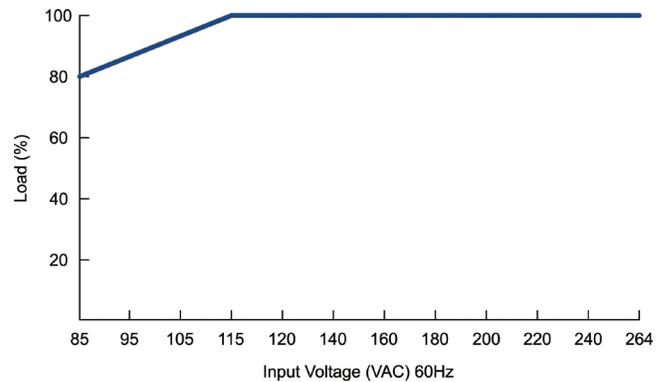


De-rating Curve

Output Load De-rating vs. Surrounding Air Temperature



Output Load De-rating vs. Input Voltage



Ordering Information

Part Number	Description
IPS-D22A60W12V-A	12 V _{DC} / 60 Watts DIN-Rail Power Supply
IPS-D22A60W24V-A	24 V _{DC} / 60 Watts DIN-Rail Power Supply
IPS-D22A60W48V-A	48 V _{DC} / 60 Watts DIN-Rail Power Supply

Mouser Electronics

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