

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

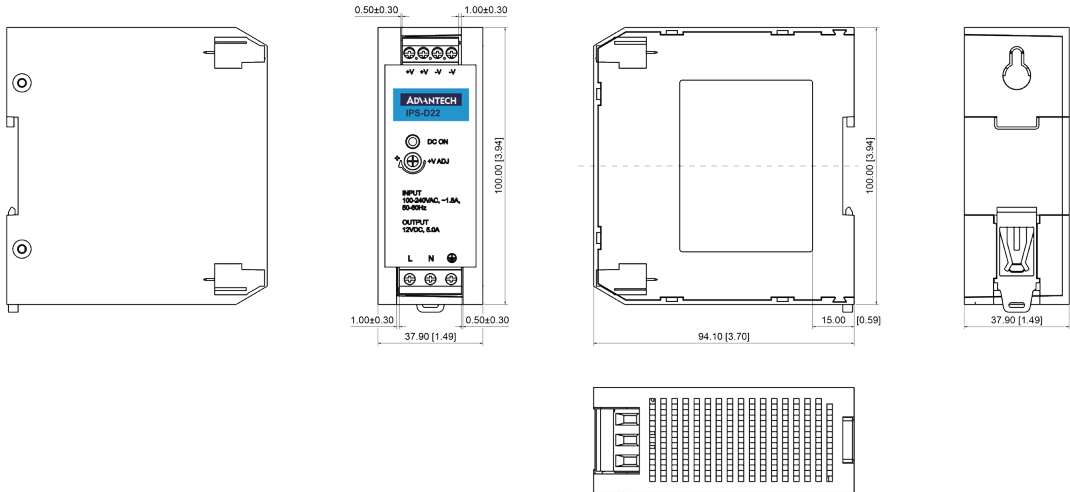


Specifications

| | Model | IPS-D22A60W12V-A | IPS-D22A60W24V-A | IPS-D22A60W48V-A |
|----------------------------------|--|---|--|--|
| Output | 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% | | |
| | Hold-up Time | 115V/60Hz: 16ms Minimum; 230V/50Hz: 50ms. Minimum | | |
| Input | 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 | | |
| | Insulation Resistance | AC input - DC output/FG, DC output - FG: 50M Ohms / 500V _{DC} | | |
| Safety & EMC | 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 | | |

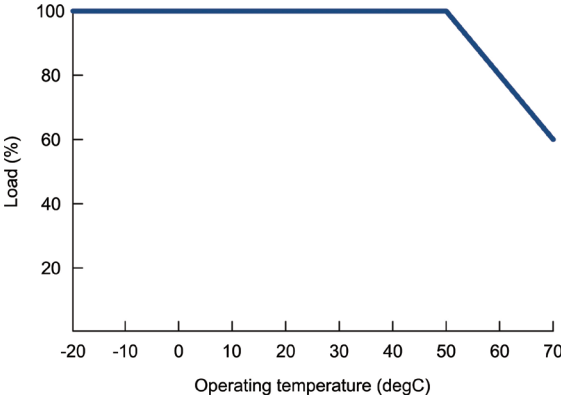
Dimensions

Unit: mm [inch]

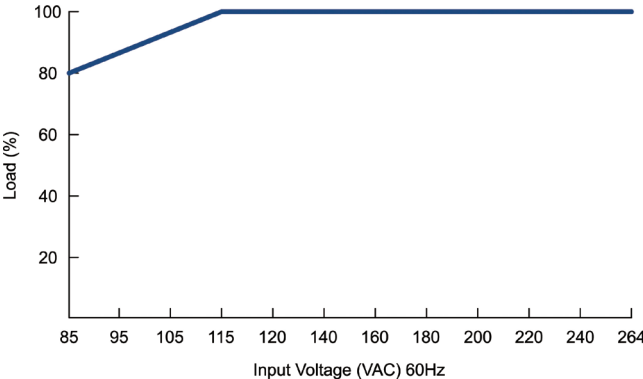


De-rating Curve

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 |