HDR Power Supply Series

60 W small form factor power supply for DIN-rail mounted products



Features and Benefits

- · DIN-rail mounted power supply
- · Slim form factor that is ideal for cabinet installation
- Universal AC power input
- · High power conversion efficiency

Certifications







Introduction

The HDR-60-24 Power Supply Series has been specifically designed for industrial applications. The small form factor makes it ideal for installation in limited spaces, and the devices have been built to operate between -30 to 70°C. The devices support AC input ranges from 85 to 264 VAC and conform to the EN 61000-3-2 standard, which the European Union uses to regulate harmonic current. Furthermore, the devices are equipped with constant current mode for overload protection.

Specifications

Output Power Parameters

| Wattage | 60 W | | |
|-----------------------------------|--|--|--|
| Voltage | 24 VDC | | |
| Current Rating | 0 to 2.5 A | | |
| Ripple and Noise | 150 mVp-p | | |
| Voltage Adjustment Range | 21.6 to 29 VDC | | |
| Setup/Rise Time at Full Load | 500 ms, 50 ms at 230 VAC 500 ms, 50 ms at 115 VAC | | |
| Typical Hold Up Time at Full Load | 30 ms at 230 VAC 12 ms at 115 VAC | | |

Input Power Parameters

| Voltage Range | 85 to 264 VAC (47 to 63 Hz) 120 to 370 VDC |
|-----------------------------|---|
| Typical Efficiency | 90% |
| Typical Current | 0.8 A @ 230 VAC, 1.2 A @ 115 VAC |
| Inrush Current (cold start) | 60 A @ 230 VAC, 30 A @ 115 VAC |

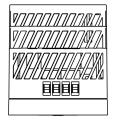


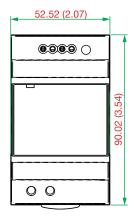
| Overload Protection | | | | |
|---|--|--|--|--|
| Rated Output Power | 105 to 160% | | | |
| Protection Type | Constant current limiting, recovers automatically after fault condition is removed | | | |
| Overvoltage Protection | | | | |
| Over-Voltage Range | 30 to 36 V | | | |
| Protection Type | Shut down operating voltage, repower on to recover | | | |
| Standards and Certifications | | | | |
| Safety | UL 508, EN 62368-1, UL 62368-1, IEC 62368-1 | | | |
| EMC | EN 55032/24, EN 61000-3-2 Class A, EN 61000-3-3 | | | |
| EMS | IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 6000 MHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs | | | |
| Physical Characteristics | | | | |
| Dimensions | 52.5 x 90 x 54.5 mm (2.07 x 3.54 x 2.15 in) | | | |
| Weight | 230 g (0.5 lb) | | | |
| Environmental Limits | | | | |
| Operating Temperature | -30 to 70°C (-22 to 158°F) | | | |
| Storage Temperature | -40 to 85°C (-40 to 167°F) | | | |
| Max. Operating Temperature at Full Load | 45°C (113°F) | | | |
| Ambient Relative Humidity | 20 to 90% (non-condensing) | | | |
| МТВГ | | | | |
| Time | 927,560 hrs | | | |
| Standards | MIL-HDBK-217F | | | |
| Warranty | | | | |
| Warranty Period | 3 years | | | |
| Details | See www.moxa.com/warranty | | | |
| Package Contents | | | | |
| Device | 1 x HDR Power Supply Series power supply | | | |

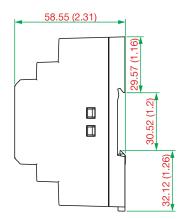


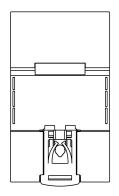
Dimensions

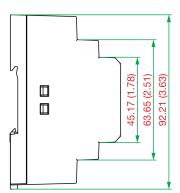
Unit: mm (inch)

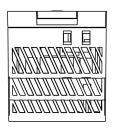












Ordering Information

| Model Name | Input Voltage | Wattage | Weight (Packaged) | Package Dimensions |
|------------|--|---------|-------------------|--|
| HDR-60-24 | 85 to 264 VAC 47 to 63 Hz 120 to 370 VDC | 60 W | 267 g (0.59 lb) | 58 x 98 x 66 mm (2.23 x 3.86 x 2.60 in) |

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