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 have a plastic housing and 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		

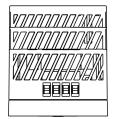


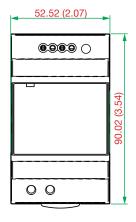
Overload Protection			
Rated Output Power	105 to 160%		
Protection Type	Constant current limiting, recovers automatically after fault condition is removed		
Overvoltage Protection			
Over-Voltage Range	30 to 36 V		
Protection Type	Shut down operating voltage, repower on to recover		
Physical Characteristics			
Housing	Plastic		
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)		
Standards and Certifications			
Standards and Certifications Safety	UL 508, EN 62368-1, UL 62368-1, IEC 62368-1		
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Safety			
Safety EMC	EN 55032/24, EN 61000-3-2 Class A, EN 61000-3-3 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		
Safety EMC EMS	EN 55032/24, EN 61000-3-2 Class A, EN 61000-3-3 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		
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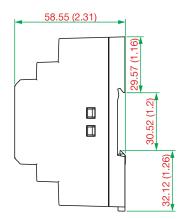


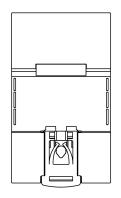
Dimensions

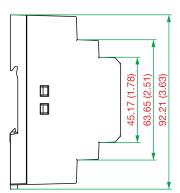
Unit: mm (inch)

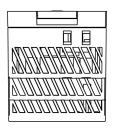












Ordering Information

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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