

SDR Power Supply Series

480 W power supply for DIN-rail mounted products



Features and Benefits

- 480 W high power wattage
- 48 VDC power output
- -25 to 70°C operating temperature ability
- Compact form factor

Certifications



Introduction

The SDR Power Supply Series provides a reliable 48 VDC power source for industrial control systems and has passed a 100% full load burn-in test, is UL/CUL listed, and CE marked. The SDR Power Supply Series can operate in parallel with up to seven other SDR devices to provide up to 3840 W. The series has an operating temperature range of -25 to 70°C and a three year warranty, which ensures suitability for operating in harsh environments.

Specifications

Output Power Parameters

Wattage	480 W
Voltage	48 VDC
Current Rating	0 to 10 A
Ripple and Noise	120 mVp-p
Voltage Adjustment Range	48 to 55 VDC
Setup/Rise Time at Full Load	3000 ms, 150 ms at 115 VAC 1500 ms, 150 ms at 230 VAC
Typical Hold Up Time at Full Load	14 ms at 230 VAC

Input Power Parameters

Voltage Range	90 to 264 VAC (47 to 63 Hz) 120 to 370 VDC
Typical Efficiency	94%
Typical Current	2.5 A @ 230 VAC, 5 A @ 115 VAC
Typical Current (cold start)	80 A @ 230 VAC, 40 A @ 115 VAC

Overload Protection

Rated Output Power	110 to 115%
Protection Type	Constant current limiting, recovers automatically after fault condition is removed

Overvoltage Protection

Over-Voltage Range	56 to 65 V
Protection Type	Shut down operating voltage, repower on to recover

Physical Characteristics

Dimensions	85.5 x 125.2 x 128.5 mm (3.37 x 4.93 x 5.06 in)
Weight	1,600 g (3.53 lb)

Environmental Limits

Operating Temperature	-20 to 70°C (-4 to 158°F)
Max. Operating Temperature at Full Load	50°C
Ambient Relative Humidity	20 to 90% (non-condensing)

Standards and Certifications

EMC	EN 50082-2, EN 55022 Class B, EN 61000-3-2 Class A, ENV 50204
Safety	EN 60950-1

Warranty

Warranty Period	3 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x SDR Power Supply Series power supply
Documentation	1 x warranty card

Ordering Information

Model Name	Input Voltage	Output Voltage	Output Wattage	Operating Temp.
SDR-480P-48	90 to 264 VAC 127 to 370 VDC	48 VDC	480 W	-25 to 70°C

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