



RLH Industries, Inc.

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PRODUCT
DATA SHEET

DS-211 2025-0902

200W DC/DC Converter

D200-UWXX-1

Industrial, Ultra Wide Input

The RLH 200W DC/DC converter is a compact power supply designed to convert a DC Input voltage to a regulated and isolated DC output voltage. Able to power a wide range of industrial equipment, this power supply offers 12V, 24V, and 48V output models to accommodate standard voltages found in substation, and automation & control equipment.

This rugged power supply features a compact aluminum alloy frame with a powder coated, galvanized steel housing for superior corrosion resistance. The DIN clip allows for easy mounting onto a panel or wall.

Supporting an ultra wide 20~160VDC input voltage range, each model also allows for adjusting the output voltage to $\pm 10\%$ of the rated output voltage, includes a convenient LED power status indicator, and an alarm relay output for remote monitoring.

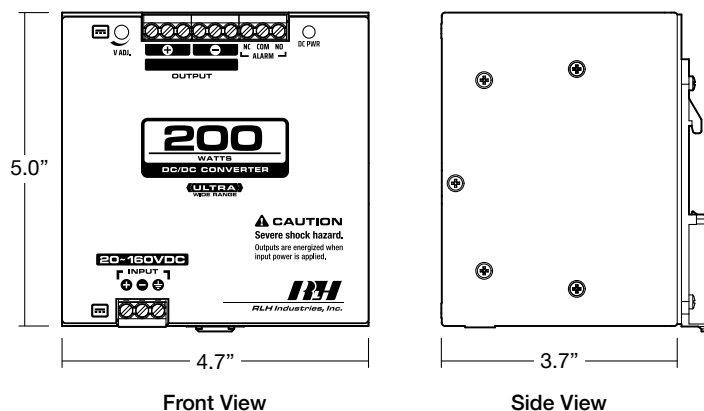


Industrial 200 Watt DC/DC Converter

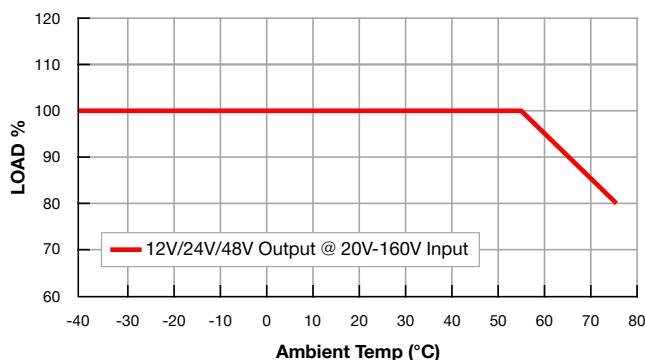
Features

- DIN rail mountable
- Built in protection: Over-voltage, Over-current, Over-temperature
- Isolated DC Output with $\pm 10\%$ adjustment
- High DC input available for converting large battery array power to usable range for network devices
- Alarm relay output for remote/external monitoring
- Sturdy aluminum alloy and powder coated steel housing
- Hardened to operate in -40°C to $+75^{\circ}\text{C}$ environment
- Fanless, maintenance free operation with natural convection cooling

Dimensions



Typical Derating Curve





General Specifications

Model	D200-UW12-1		D200-UW24-1	D200-UW48-1
Input	Voltage Range		20-160 VDC	
Output	Voltage	12VDC	24VDC	48VDC
	Current	16.7A	8.4A	4.2A
	Start time	≤ 100 ms		
	Voltage Accuracy	±1.0%		
	Line Regulation	±0.2%		
	Load Regulation	±0.2%		
	Ripple & Noise	200mV pk-pk Max.	240mV pk-pk Max.	240mV pk-pk Max.
	Short Circuit Protection	Continuous, Auto Recovery		
	Over Current Protection	110-140%, Vout < 90%		
	Transient Response (25% Step Load)	<250 μs		
	Output Voltage Trim	±10%		
General	Switching Frequency	480 kHz		
	Efficiency	90%	88%	89%
	Operating Temperature	-40°C to + 75°C		
	Relative Humidity	95% RH max. Non Condensing		
	Isolation Voltage (Input to Output)	4200 VDC min.		
	Isolation Resistance	100MΩ min.		
	Isolation Capacitance	500pF typ.		
	Input Polarity Reversal Protection	Fuse and Diode Protection		
	Cooling	Heatsink, Convection Cooling		
Alarm Relay	Rated Load	0.27A @ 220 VDC, 0.5A @ 250 VAC		
	Max. Operating Voltage	220 VDC, 250 VAC		
	Max. Operating Current	2A		
	Max. Switching Capacity	60 W, 125 VA		
	Green Power LED - Relay Closed	Normal Operation		
	Power LED OFF - Relay Open	No Power Detected		
Physical	Dimensions	5.0" (H) x 4.7" (W) x 3.7" (D) (127mm x 119mm x 94mm) *Not including DIN rail clip		
	Weight	2.4lbs		
	Construction	Aluminum alloy, galvanized steel, powder coated.		
	Mounting	35mm DIN rail clip (included)		
Compliance	Reach and RoHS			
MTBF	228,159 hours MIL-HDBK-217F2, GB, 25°C			
Warranty	3 Years - Visit www.fiberopticlink.com for warranty details			



Ordering Information

Description	Input	Output	Amps	Part Number
200 Watt Ultra-Wide Input to 12V DC/DC Converter	20VDC~160VDC	12VDC	16.7A	D200-UW12-1
200 Watt Ultra-Wide Input to 24V DC/DC Converter	20VDC~160VDC	24VDC	8.4A	D200-UW24-1
200 Watt Ultra-Wide Input to 48V DC/DC Converter	20VDC~160VDC	48VDC	4.2A	D200-UW48-1

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