

DC-DC Converter - Technical Specifications

Headline: Reliable DC Power for Critical Applications

Input Voltage Range

Wide Window: 20V DC to 300V DC (Standard models available for 24V, 48V, 110V, 220V nominal inputs)

Output Voltage Options

Regulated 12V DC, 24V DC, or 48V DC (Customer Specified / Settable)

Conversion Efficiency

Up to 90% at full rated load

Line & Load Regulation

Line Regulation: $< \pm 0.5\%$ | Load Regulation: $< \pm 1.0\%$

Ripple & Noise

$< 50\text{mV RMS}$ (20 MHz Bandwidth)

Electrical Isolation

1.5 kV AC Galvanic Isolation between Input, Output, and Chassis

Built-in Protections

Over-Voltage, Under-Voltage, Output Overload / Short Circuit (Self-Recovery), Reverse Polarity, Thermal Shutdown

Enclosure & Construction

Rugged powder coated CRCA sheet metal chassis with IP20 / IP31 industrial rating

Target Applications

Telecom & Datacom BTS Equipment, Solar Street Lighting, CCTV & Security Surveillance, Industrial SCADA Automation