

Telecom DC-DC Converters - Rackmount

Telecom Rackmount DC-DC Converters accept a wide input range at 24 or 48 VDC nominal, and produce pure 12, 24 or 48 VDC power. **Telecom Rackmount DC-DC Converters** are an ideal solution for colocation power source voltage and ground reference differences between Telecom, Microwave, and Wireless Cellular equipment. 100 % input/output isolation eliminates positive ground/ negative ground compatibility problems.

These units meet strict telecom requirements: low noise, high efficiency, reliability and regulation; 200% intermittent operation. With a 2 RU chassis, **Telecom Rackmount DC-DC Converters** conserve precious rack space.

Output voltage is well filtered and maintained within 1% for all line and load conditions, allowing use with sensitive transceivers and telecom equipment. The case is designed for convection cooling - no fan maintenance required - and features front panel metering and voltage adjustment.



Product Features

- **48/24 VDC Inputs; 12/24/48 VDC Outputs**
- **400 Watt Output**
- **Complete Compatibility**
 - Between positive, negative or floating ground systems
- **Input-Output-Chassis Isolation 250 VDC**
- **Rated for Continuous Duty at Full Load**
- **Excellent Regulation**
 - Under all line/load conditions
- **Low Ripple**
 - Provides noise free output
- **High Efficiency**
 - 85% typical
- **Rackmounted**
 - Adaptable to both 19" and 23" racks, flush or 6" forward mount
 - 2 RU (one RU space above and below recommended for cooling)
- **Output Voltmeter & Ammeter**
- **Output Voltage Adjustment on Front Panel**

Product Specifications

Performance	
Regulation	1% line/load
Ripple	±½% peak-peak max
Idle Current	50mA
Efficiency	85% typical @ 50% load
Operating Temperature	-40 to 70°C; Derate linearly from 100% @ 50°C to 50% @ 70°C
Isolation	250 Volts input-putput-chassis
Protection	
<ul style="list-style-type: none"> • Input circuit breaker. • Output fuse. • Current limited/short circuit proof. • High/low input voltage shutdown • Fail-safe components guard against output over-voltage condition. • Automatic high temperature power reduction starting at 65° C heat sink temp. • Automatic thermal shut down and recovery @ 85° C heat sink temp. (automatic reset). • Reverse polarity protection. 	
Mechanical	
<ul style="list-style-type: none"> • Anodized aluminum front panel, vinyl coated aluminum case. • Mounting brackets provided for 19" or 23" rackmount, flush or 6" forward mount. • Easy access input/output terminal block on back of unit, with protective cover. • Front panel switch guard provided. • Output voltage adjustment potentiometer recessed in front panel. 	
Options	
<ul style="list-style-type: none"> • Operation as battery charger and / or parallel redundant operation. (Heat sink mounted oring diode installed in series with the output) • Output Failure Alarm Contacts • Case Size: 3.5 x 19/23 x 14" 	

Model Selection Guide

Model	Input (VDC / Max Amps)	Output (VDC / Adj Range / Amps Cont)	Weight (lbs / kg)
48-12-30RM	40-60 / 12	13.6 / 12.6-14.5 / 30	10 / 4.6
48-24-15RM	40-60 / 12	27.2 / 25.2-29.0 / 15	10 / 4.6
24-12-30RM	20-30 / 24	13.6 / 12.6-14.5 / 30	10 / 4.6
24-48-8RM	20-30 / 26	54.4 / 50.4-58.0 / 8	10 / 4.6