



Calidad 1U

Telecom

Network

Broadband

Utilities



Calidad 1U

Product Description

Eagle Eye's Calidad 1U is a simple, cost competitive 48V power shelf for telecommunications and network applications. The Calidad 1U can be configured with the RM-48-3K or RM-48-2K 96% efficient rectifiers for redundant or bulk power applications. An optional external communication module is available for SNMPv3 and web server capability. This shelf is an excellent upgrade for existing cabinets and rack mounted systems.

Product Features

- Hot pluggable
- High efficiency, 96% typical
- Up to 9kW of power
- n+1 redundancy
- 1RU height for compact installations
- 19 inch rack mount type
- Rear-access wiring for AC input, DC output, alarms & communication
- Optional communication module available for SNMPv3 support

General Specifications

Operating temperature	-40 – 75°C (-40 – 167°F) Derating above 55°C (131°F) 2kW Derating above 45°C (113°F) 3kW
Storage temperature	-40 – 80°C (-40 – 176°F)
Operating humidity	10 – 95% (non-condensing)
Storage humidity	5 – 95% (non-condensing)
Cooling	Fan-cooled rectifiers (front-to-back airflow)
Altitude	2,000 m (6562 ft)
Reliability	>150,000 hours (per MIL STD 217F)
Size (shelf)	444.8 x 417 x 44.4 mm (17.51 x 16.42 x 1.75 in.)
Weight	11.1 kg (24.5 lbs.)

Electromagnetic Compatibility

Emissions	EN55022 Class A
Electrostatic Discharge	EN61000-4-2, 4 kV Contact / 8 kV Air
Radiated Susceptibility	EN61000-4-3, 26 MHz - 2000 MHz, 10 V/m, 80% AM
EFT/Bursts	EN61000-4-4, 2 kV
Surge	EN61000-4-5
Conducted Immunity	EN61000-4-6, 150 KHz - 80 MHz, 10 Vrms, 80% AM
Voltage Dips	EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% reduction, 5 ms
Fluctuations & Flicker	EN61000-3-3

Input Specifications	
Voltage	1P3W 240VAC ±20% (Nominal)
Frequency	47 – 63 Hz
Protection	Under & Over voltage
Efficiency	96.0% Typical (2KW module)

Output Specifications	
Output Voltage	Default -53.5VDC
Output Current	6kW Max (2KW x 3 modules) 9kW Max (3kW x 3 modules)
Adjustment Range	-43.5 to -58 VDC
Line Regulation	±0.5% Max
Load Regulation	±1.0% Max
Temp Regulation	±0.5% Max
Noise	≤250mVp-p (2kW modules) ≤300mVp-p (3kW modules)
Setpoint Accuracy	±0.5%
Over Current	101~110%
Protection	-59VDC over Thermal Shutdown

Status & Control Signals:	
Communication Interface	TCP/IP (6) Dry Contact Alarms (4) Digital Input Alarms

Safety Standards	
UL/cUL	60950-1

Ordering Information

Model No.	Description
Calidad 1U	1U 48VDC Bulk Output Shelf