



# 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

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

## Electromagnetic Compatibility

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

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

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

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

Safety Standards	
<b>UL/cUL</b>	60950-1

### Ordering Information

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