CM1748-48 1.7kW 48 to 48V DC Modular DC-DC Converter

Efficient and reliable, these modular rack mount converters allow for easy paralleling of modules to provide redundancy or higher power outputs. Designed for use in modern telecommunications networks these converters offer unrivalled power densities.

The unique design allows for mounting four converters in a 1U x 19" rack space.

"Plug and play" installation allows quick and easy installation and system expansion. These robust, reliable converters are forced cooled by a speed controlled and monitored high reliability fan.

When installed into an Enatel DC system solution the CM1748-48 will communicate with a SM3x series controller for system level monitoring and control.

- Forced cooled.
- Thermally protected.
- Input/output voltage and current protected.
- Serial alarm and control interface.
- Microprocessor controlled.











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Specifications

DC Input Nominal Input Voltage: Input Voltage Range: Input Protection: Fuses: Input Voltage:

DC Output

Nominal Output Voltage: Output Voltage Range: Maximum Output Current: Maximum Output Power: Efficiency: **Regulation:** Line Load: Start-up Time: Protection: Current Limit: Over Temperature: Polarity Reversal: Over Voltage: Noise: (under nominal conditions) Ripple <100Hz: Voice Band 100Hz-5KHz: Wide Band 5kHz-1MHz: Peak to Peak 0-20MHz: Isolation: Input to Output: Input to Chassis: Output to Chassis:

Environmental Requirements Ambient Temperature: Nominal: Range: Storage Temperature: Humidity: Altitude:

Mechanical Dimensions W, H, D: Weight: Shipping Dimensions W, H, D: Shipping Weight: Cooling:

Compliances Safety: Electostatic Discharge: Radiated Radio Frequency:

Additional Accesories ACM-4T:

Ordering Information CMXXX-YY: C = M = XXX =

-YY =

48V 40-60V

Fuse in the positive input with crowbar diode Converter shuts down when input voltage is out of range, Automatically restarts when correct voltage is restored

48V 46-52V 33A 1700W 91%

± 0.1% ± 0.5% (no load to full load) Walk-in delay 2-8 seconds depending on load

Adjustable to 50-100% of maximum rated current Auto current turndown, backup shutdown protection Output fuse in positive with crowbar diode Adjustable limit

<1mV rms unweighted <1mV rms psophometric <5mV rms unweighted <50mV peak to peak

4230V DC 2115V DC (VDR to chassis removed) 2115V DC

+25 +/- 5°C -10 to +70°C (maximum output power is derated above +50°C) -20 to +70°C 5-95% RH (non condensing) <2500m, De-rate maximum ambient temperature by +4°C per 1000m above sea level

111.5mm, 44mm (1U), 282 overall (rack depth 260mm) 1.1kg 170mm, 52mm, 325mm 1.6kg Forced cooled.

EN60950 CISPR24 CISPR22

1U 4 position DC-DC converter shelf, no cables

Converter Modular version Converter rating and output voltage 1748 = 1700W 48V nom Converter input voltage 48 = 48V nom

