CM648-24 650W 24 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 CM648-24 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 Electrical Safety: RF Emissions: RF Immunity: RoHS: Consumer Safety:

Additional Accesories ACM-4T:

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

-YY =

24V 20-30V

48V 46-52V

13.5A

650W

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

91% ± 0.1% ± 0.5% (no load to full load) Walk-in delay 2-8 seconds depending on load and output voltage.

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

EN 60950 CISPR 22 Class B CISPR 24 2002/95/EC CE

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

Converter Modular version Converter rating and output voltage 648 = 650W 48V nom Converter input voltage -24 = 24V nom

