

enatel

CM Series Converter LV >1500W

Low Voltage DC-DC Converter Over 1500W



CM1748 / CM1860

DC CONVERTER


DC OUT
48V / 60V

MAX OUTPUT
1800W

Key Features

- Forced-air cooled by a temperature controlled, high-reliability, monitored fan
- Thermally protected
- Input/output voltage and current protected
- Serial alarm and control interface
- Microprocessor controlled
- Standalone or system operation

Efficient and Reliable

These modular rack mount DC-DC converters allow for easy paralleling of modules to provide redundancy or higher power outputs. Designed for use in modern telecommunication networks and industrial applications, these converters offer unrivalled performance.

The design allows for mounting four modules in a 1U x 19" rack or integrated within our COMPACT systems, Enatel's Energy Manager can be used for system level monitoring and control, or it can operate as a standalone unit. These converters can be configured in combinations to provide multiple voltage outputs, filtering and isolation.

The CM Series 'plug and play' ability allows quick and easy installation and system expansion. These robust, reliable converters are forced-air cooled and automatically return to normal operation following abnormal events.

Modules are New Zealand-made to guarantee design, manufacture and process integrity. Our robust, proven conversion topology utilises only the highest specification components – something rarely offered by others.



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Specifications



| ELECTRICAL | CM1748-48 | CM1860-48 |
|-----------------------------------|---|---|
| DC INPUT RATINGS | | |
| NOMINAL VOLTAGE: | 48V | |
| INPUT VOLTAGE RANGE: | 40-60V | 43-60V |
| FUSES | Fuse in the positive input with crowbar diode | |
| INPUT VOLTAGE PROTECTION: | Auto shutdown, auto restart when voltage restored | |
| DC OUTPUT RATINGS | | |
| NOMINAL VOLTAGE: | 48V | 60V |
| VOLTAGE RANGE: | 48-52V | 54-65V |
| MAXIMUM OUTPUT CURRENT: | 33.0A (48V DC output min) | 30.7A (54V DC output min) |
| POWER RATING: | 1700W | 1800W |
| PEAK EFFICIENCY: | 93.50% | 92.85% |
| CURRENT: | Current limit fixed, non-adjustable | Current limit fixed, operates between 54-65V DC |
| ENVIRONMENTAL REQUIREMENTS | | |
| AMBIENT TEMPERATURE: | -20°C to 70°C [-4°F to 158°F] maximum output power is derated above 50°C [122°F] | |
| STORAGE TEMPERATURE: | -30°C to 85°C [-22°F to 185°F] | |
| COMPLIANCES | | |
| SAFETY: | EN 60950-1 | |
| IMMUNITY: | CISPR24 | |
| EMISSIONS: | CISPR22 Class B | |
| OTHER: | CE & RoHS Compliant | |
| MECHANICAL | | |
| DIMENSIONS: | WIDTH: | 111.5 mm [4.39 in] |
| | HEIGHT: | 44.0 mm [1.73 in] (1U) |
| | DEEP: | 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in]) |
| WEIGHT: | 1.50kg [3.31 lb] | |
| COOLING: | Forced-air cooled (front to back airflow) | |

Due to product development, specifications are subject to change without prior notice. Pictures may be representative: actual products may differ.

