

# CM Series Converter - LV >1500W

LOW VOLTAGE DC-DC CONVERTER (OVER 1500W)

PRODUCT SHEET

**POWER OUTPUTS**

MAX OUTPUT 1800W

DC OUT 48V

DC OUT 60V

## 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 utilizes only the highest specification components – something rarely offered by others.

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## Specifications

DC INPUT RATINGS		
MODEL:	CM1748-48	CM1860-48
NOMINAL VOLTAGE:	48V	48V
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 (48VDC output min)	30.7A (54VDC output min)
POWER RATING:	1700W	1800W
PEAK EFFICIENCY:	93.50%	92.85%
CURRENT:	Current limit fixed, non-adjustable	Current limit fixed, operates between 54-65VDC

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]

MECHANICAL	
DIMENSIONS:	W: 111.5 mm [4.39 in]
	H: 44.0 mm [1.73 in] (1U)
	D: 282.0 mm [11.1 in] overall
WEIGHT:	1.50 kg [3.31 lb]
COOLING:	Forced-air cooled (front to back airflow)

COMPLIANCES	
SAFETY:	EN 60950-1
IMMUNITY:	CISPR24
EMISSIONS:	CISPR22 Class B
OTHER:	CE & RoHS Compliant

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