



Telecommunications



Data centers



Industries



Renewable

## CM SERIES CONVERTER - LV <1500W

CNVENACM SERIES

**enATEL**  
energy



### DESCRIPTION

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, ltering 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.

### 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.

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### SPECIFICATIONS

	CNVENACM61224	CNVENACM61248	CNVENACM102448	CNVENACM104824
<b>DC INPUT RATINGS</b>				
Nominal Voltage	24V	48V	48V	24V
Voltage Range	20-30V	40-60V	40-60V	20-30V
Fuses	Fuse in the positive input with crowbar diode			
Input Voltage Protection	Auto shutdown, auto restart when voltage restored.			
<b>DC OUTPUT RATINGS</b>				
Nominal Voltage	12V	12V	24V	48V
Voltage Range	10.5-15V	10.5-15V	21-30V	46-52V
Maximum Output Current	40.0A	40.0A	43.0A	21.6A
Power Rating	560W	560W	1040W	1040W
Peak Efficiency	90.32%	93.00%	93.93%	92.31%
<b>ENVIRONMENTAL REQUIREMENTS</b>				
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]			
<b>MECHANICAL</b>				
Dimensions	W: 111.5 mm [4.39 in]			
	H: 44.0 mm [1.73 in] (1U)			
	D: 282.0 mm [11.1 in] overall (rack depth 260.0 mm [10.24 in])			
Weight	1.50 kg [3.31 lb]			
Cooling	Forced-air cooled (front to back airflow)			
<b>COMPLIANCES</b>				
Safety	EN 60950-1			
Immunity	CISPR24			
Emissions	CISPR22 Class B			
Other	CE & RoHS Compliant			