latpower

Telecomunicaciones · Data Centers · Industries · Renewable

CM SERIES CONVERTER - HV

CNVENACM HV SERIES

enatel energy

DESCRIPTION

A DC-DC converter that employs an advanced topology to optimize the operational benefits. The ideal converter where energy conversion is required.

Applications include industrial sites, microgrids and those data centres migrating to 380V DC designs where 48V DC loads are installed.

With a peak efficiency >97%, the CM2048HE high-efficiency HV converter provides signi cant energy savings. It converts 320-380V DC input to 48V DC output with minimal loss. It's compatible with lithium-based battery technologies and can be used in combination with renewable inputs.

Modules intended operation is with a 48V DC battery connected to the output.

New Zealand-made to guarantee design, manufacture and process integrity, the CM Series represents unrivalled reliability with a robust proven conversion topology that includes only highest specification components. Modules can be integrated within COMPACT solutions.

KEY FEATURES

• Robust design and a proven topology for optimum reliability.

• Highest efficiency conversion.

• Wide range DC for maximum flexibilty.

• Scalable, modular architecture for quick and easy system intergration/ expansion.

• Modular architecture for quick and easy system integration/expansion.

• Forced-air cooled by a temperature controlled, high-reliability, monitored fan

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SPECIFICATIONS

	CNVENACM2048HE	CNVENACM1848HEHV
DC INPUT RATINGS		
Nominal Voltage	350V	100V
Input Voltage Range	85–400V (200–360V non-derating output power)	60–140V (limited to 17A input)
Peak Efficiency	97.44% @ 20–85% load with 200-250V DC input	>96% @ 25–70% load with 85-100V DC input
DC OUTPUT RATINGS		
Nominal Voltage	48V	
Voltage Range	43-60V	
Maximum Output Current	41.7A	37.5A
Power Rating	2.0kW	1.8kW
ENVIRONMENTAL REQUIREMENTS		
Ambient Temperature	-20°C to 70°C [-4°F to 158°F] (maximum output power is derated above 55°C [131°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 (rack depth 260.0 mm [10.24 in])	
Weight	1.50 kg [3.31 lb]	
Cooling	Forced-air cooled (front to back airflow)	
COMPLIANCES		
Safety	EN 60950-1, IEC 62109-1	
Immunity	CISPR24	
Emissions	CISPR22 Class B	
Other	CE & RoHS Compliant	