

enatel

CM Series Converter HV

High Voltage DC-DC



CM1848HE / CM2048HE

DC CONVERTER


DC OUT
48V

MAX OUTPUT
2.0kW

Key Features

- Robust design and a proven topology for optimum reliability
- Highest efficiency conversion
- Wide range DC for maximum flexibility
- Scalable, modular architecture for quick and easy system integration/expansion
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- Forced-air cooled by a temperature controlled, high-reliability, monitored fan

Advanced Topology

A DC-DC converter that employs an advanced topology to optimise 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 significant 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.



CM Series Converter HV Specifications



ELECTRICAL		CM1848HE	CM2048HE
DC INPUT RATINGS			
NOMINAL VOLTAGE:		100V	350V
INPUT VOLTAGE RANGE:		60–140V (limited to 17A input)	85–400V (200–360V non-derating output power)
PEAK EFFICIENCY:		>96% @ 25–70% load with 85–100V DC input	97.44% @ 20–85% load with 200–250V DC input
DC OUTPUT RATINGS			
NOMINAL VOLTAGE:		48V	
VOLTAGE RANGE:		43–60V	
MAXIMUM OUTPUT CURRENT:		37.5A	41.7A
POWER RATING:		1.8kW	2.0kW
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, IEC 62109-1	
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.