



Telecommunications



Data centers



Industries



Renewable

2KW WIND CHARGER WM2048HE CNVENAWM2048HE

enatel
energy



DESCRIPTION

With peak efficiency near 98%, Enatel's WM2048HE high-efficiency Wind Charger provides significant energy savings.

Each charging module is designed for operation with a high-voltage wind turbine and with a wide input operating voltage window, offers maximum flexibility for the greatest optimization. High voltage turbines offer superior performance with fewer losses than low voltage alternatives.

The WM2048HE allows rapid wind harvesting against varying wind speeds by using an embedded look-up table to intelligently determine the optimal power levels and avoid overload. This combined with the highest conversion efficiency maximizes wind power generation, delivering the greatest ROI.

Enatel's wind chargers are New Zealand-made to guarantee design, manufacture and process integrity. The WM2048HE represents unrivalled reliability with a robust proven conversion topology. Modules can be integrated into COMPACT solutions or operate as standalone units.

KEY FEATURES

- Highest efficiency conversion, more than 97%.
- Widest range of DC input for greater flexibility.
- Lowers OPEX by up to 80%.
- Modular architecture for quick and easy system integration/expansion.
- Increases your return on investment.
- Configurable power curve.

2KW WIND CHARGER WM2048HE

CNVENAWM2048HE



SPECIFICATIONS

CNVENAWM2048HE	
DC INPUT RATINGS	
Nominal Voltage	220V DC
Input Voltage Range	85–400V (200–360V DC non-derating output power)
Maximum Open Circuit Voltage	450V DC
Peak Efficiency	97.35% @ 20–85% load with 200-250V DC input
DC OUTPUT RATINGS	
Nominal Voltage	48VDC
Voltage Range	43-60VDC
Maximum Output Current	41.7A
Power Rating	2.0kW
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