**ENGTE** 

### 2kW Wind Charger Converter



## **WM2048HE**

DC CONVERTER

DC OUT **48V** 

MAX OUTPUT **2.0kW** 

#### **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



#### Extreme Compatibility

With peak efficiency near 98%, Enatel's WM2048HE highefficiency 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 optimisation. 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 maximises 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.

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# **2kW Wind Charger** Converter Specifications



ELECTRICAL	WM2048HE
DC INPUT RATINGS	
NOMINAL VOLTAGE:	220V DC
INPUT VOLTAGE RANGE:	85–400V (200–360V DC non-derating output power)
MAXIMUM OPEN CIRCUIT VOLTAC	E: 450V DC
PEAK EFFICIENCY:	97.35% @ 20–85% load with 200-250V DC input
DC OUTPUT RATINGS	
NOMINAL VOLTAGE:	48V DC
VOLTAGE RANGE:	43-60V DC
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]
COMPLIANCES	
SAFETY:	IEC 62109-1, AS 62040.1
IMMUNITY:	CISPR24
EMISSIONS:	CISPR32
OTHER:	CE & RoHS Compliant
MECHANICAL	
WIDTH:	111.5 mm [4.39 in]
DIMENSIONS: 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.