



2kW Wind Charger WM2048HE

Extreme Compatibility

2.0kW
MAX

48V
OUT



GREEN
ENERGY

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



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Specifications

DC INPUT

Nominal Input Voltage:	220V DC
Input Voltage Range:	85–400V (200–360V DC non-derating output power)
Maximum Open Circuit Voltage:	120V DC
Peak Efficiency:	>97% @ 20–85% load with 200–250V DC input

DC OUTPUT

Nominal Output Voltage:	48V DC
Output Voltage Range:	43-60V DC
Maximum Output Current:	41.7A
Maximum Output Power:	2.0kW

ENVIRONMENTAL REQUIREMENTS

Ambient Temperature:	-20°C to +70°C (maximum output power is derated above 55°C)
Storage Temperature:	-30°C to +85°C

MECHANICAL

Dimensions (W, H, D):	111.5mm, 44.0mm (1U), 282.0mm (rack depth 260.0mm)
Weight:	1.50kg
Cooling:	Forced-air cooled (front to back airflow)

COMPLIANCES

Safety:	EN60950, IEC62109
Immunity:	CISPR24
Emissions:	CISPR22 Class B
Other:	CE & RoHS compliant



Contact Enatel for datasheets and characterization details. Due to product development, specifications are subject to change without prior notice. Pictures may be representative: actual products may differ.

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