

PVC 2500B RenE

PV Charger



PVC 2500B RenE is the photovoltaic battery charger, and it can help convert the solar energy to -48V power system. PVC 2500B RenE can fit in standalone application and the hybrid power applications, such as genset supply, AC grid, wind energy and fuel cell supply. With the modularity, PVC 2500B RenE can be embed in the power system really easy, not only about the installation, but also the commissioning and the maintenance.

Due to the high efficient MPPT, the operators can reduce CAPEX on solar panel configuration. Furthermore, the wide input voltage range makes the arrangement of panel more flexible. These gorgeous features help operators to reduce the emission of CO₂, and to make the contribution to the environmental protection.



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EAACEC-00-ZL

INPUT

Voltage (nominal)	290V _{DC}
Voltage (range)	50 - 450V _{DC}
Lightening Protection	EN 61000-4-5

OUTPUT

Voltage (default)	-54.5V _{DC}
Voltage (adjustable range)	-42 to -58V _{DC}
Output Current	45.87A @ default voltage
Maximum Power @ nominal Input	2500W
Power Density	29.8W/in ³
Static MPPT Efficiency	≥ 99% (CEC Efficiency) ≥ 99% (European Efficiency)
Load Regulation	≤ ± 400mV (0.2A – 45.87A)
Ripple	≤ 150mV
Protection	EN 61000-4-5

USER INTERFACE

Alarm and Signaling	CANbus to System Controller		
Indications	OK	Green	Normal Operation
	LD	Yellow	Output current < 5%
	COM	Green	Communication Status

MECHANICAL

Dimensions (W x H x D)	125.5 x 41.0 x 273.0mm (4.94 x 1.61 x 10.74in)
Weight	1.8kg (3.96lb)

ENVIRONMENTAL

Operating Temperature	-40 to +75 °C (40 to +167 °F)
Storage Temperature	-40 to +80 °C (40 to +176 °F)
Altitude	0 to +4000m
Related Humidity	0 – 95 % RH non-condensing
Acoustic Noise	≤ 55dBA

STANDARDS

Safety	CE Compliance
EMC	EN 55022 DC input Class A and DC output Class A
Environment	RoHS
MTBF	300k hours @ 25 °C (77 °F)

* All specifications are subject to change without prior notice.