

PVC 3000B RenE

PV Charger



PVC 3000B RenE is the photovoltaic battery charger, and it can help convert the solar energy to -48V power system. PVC 3000B 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 3000B 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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EGAICI-06-ZL

INPUT

Voltage (nominal)	324 V _{DC}
Voltage Range	50 – 440 V _{DC} (operation) 200 – 440 V _{DC} (full power)
Max Input Current	16.7 A
Lightning Protection	EN 61000-4-5, 4kV Line-to-Ground / 2kV Line-to-Line

OUTPUT

Voltage (default)	-54.5 V _{DC}
Voltage (adjustable range)	-42 to -58 V _{DC}
Output Current	55.05 A @ default voltage
Maximum Power @ nominal Input	3000 W
Power Density	56.8 W/in ³
Static MPPT Efficiency	≥ 99% (CEC Efficiency) ≥ 99% (European Efficiency)
Static Voltage Regulation	≤ ± 300 mV
Ripple	≤ 200 mV
Protection	EN 61000-4-5, 2kV Line-to-Line

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)	84 x 41 x 265 mm (3.30 x 1.61 x 10.43 in)
Weight	1.3 kg (3.0 lb)

ENVIRONMENTAL

Operating Temperature	-40 to +80°C (40 to +176°F); De-rating above +55°C (131°F)
Storage Temperature	-40 to +80°C (40 to +176°F)
Altitude	0 to +4000 m
Related Humidity	0 – 95% RH non-condensing
Acoustic Noise	≤ 58 dBA

STANDARDS

Safety	IEC 62109-1
EMC	EN 55032 DC input Class A and DC output Class A
Environment	RoHS
MTBF	400k hours @25°C (77°F), Telcordia SR-332

* All specifications are subject to change without prior notice.