

PVC 2200 EnergE

PV Charger



Descriptions

The PVC 2200B is a photovoltaic battery charger for telecommunication systems, converting solar energy to -48V tele-com power systems. The flexible design supports application in standalone applications or hybrid power applications in cooperation genset supply, AC grid, wind energy or fuel cell supply. The modular format offers easy scalability. The high efficiency in terms of power conversion and MPPT performance creates direct and indirect savings in the overall power conversion in rectifiers and cooling systems as well. The compact size and the extended operating temperature range make this series applicable for both indoor and outdoor applications.

Typical applications include telecommunications infrastructure powered from high cost primary energy sources (e.g. diesel genset powered in offgrid and badgrid locations) and where the telecommunication infrastructure reduces CO2 emissions.

Main features

- Lower CAPEX for solar panel – high efficient MPPT
- Flexible panel arrangement – wide input voltage range
- Energy saving – high power density
- MPPT with anti-shadow
- Shadow-prove energy harvesting
- Easy installation, commissioning and maintenance

Applications

- LTE/4G/5G
- Fixed line
- Datacom



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Technical specifications

Model **PVC 2200B-48 ID:A1**

1. Input	
Mains voltage	290 V
Wide operating voltage	50 – 369V
Normal voltage (full power)	270 – 369V
Current	9A
EMI (conducted)	EN 55022, class A
Protection	Internal fuse

2. Output	
Nominal system voltage	-54.5 V _{DC}
Power limitation	2200W
Current limitation	45.8 A
Over voltage protection	59.0 V
EMI (conducted)	EN 55022, class A
Protection	Internal fuse

3. General	
Peak efficiency	96.0% at 50% load 94.0% at 80 ~ 100% load
Dynamic MPPT efficiency	>90.0% at 10 ~100% load
Power density	27.7 W/in ³
Communication Interface	CAN bus
User interface	Status indication
Cooling	Fan cooled
Acoustics	55 dB (A)
Dimensions (W x H x D)	125.5 x 41.0 x 273.0 mm (4.9 x 1.6 x 10.7 in)
Weight	1.8 kg (4.0 lb)
Operating temperature	-40 to +75 °C (-40 to +167 °F)
Relative humidity	95%, non-condensing (Max.)

4. Standards	
Safety	IEC 62109-1
EMI (radiated)	EN 55022, class B
Environment	RoHS compliant
Protection class	IP20 (EN 60529)

5. Ordering Information	
Part number	DCS-48/45A A

*All specifications are subject to change without prior notice.

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