



EVC1000

50 kW, 60 kW

Electric vehicle charger

EVC1000 is a charger power module intended for use in DC fast electric vehicles (EV) charging stations:

- ∴ CCS Combo 1/2, CHAdeMO,
- ∴ easy installation,
- ∴ made in the EU.

Nominal power:

50 kW, 60 kW

Power Supply (AC Side)

- Voltage U_{AC}
- Frequency:
- Rated current I_{IN} :

3 x 400V (-15%, +10%)

50 Hz

78 A: 50 kW, 92 A: 60 kW

Output (DC Side)

- Voltage U_{DC} :
- Current I_{DC} :

50 - 500 (1000 on request) V_{DC}

0 – 125 A: 50 kW

0 – 150 A: 60 kW

Electrical Isolation between AC/DC sides

- High frequency transformer (HF):

16 kHz

Communication

- Connector:
- Communication protocols:
- Transmission speed RS-485:

RS-485

Modbus RTU: functions: 3, 6

19200 bit/s

Charging Standards *)

- CCS Combo 1/2 (ISO-15118, DIN 70121) or CHAdeMO

*) with additional communication module



Protections

- Short circuit: Short circuit at the input and output
- Overcurrent AC: $3,0 I_N$
- Overcurrent DC: $2,0 I_{DC-MAX}$
- Overvoltage AC: $1,15 U_{AC}$
- Undervoltage AC: $0,85 U_{AC}$
- Thermal system: Heat sink temperature sensor
- IP grade: IP 20

Maximum efficiency:

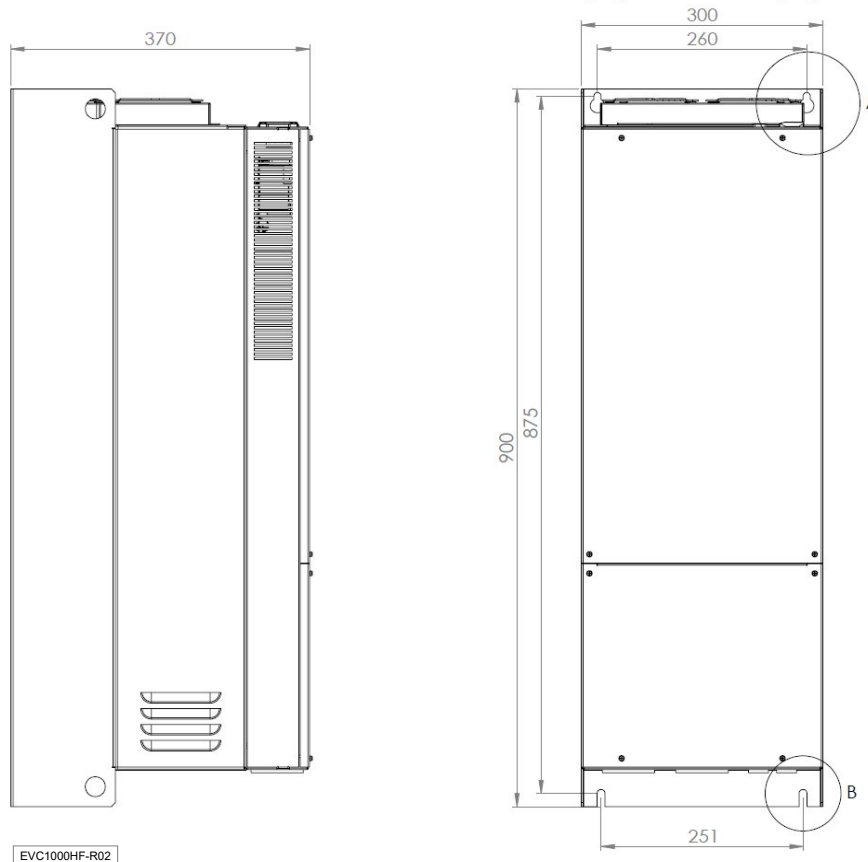
95%

Standard compliance

- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU

Dimensions and weight

- Width x height x depth: 300 x 900 x 370 mm
- Weight: 100 kg



TWERD ENERGO-PLUS Sp. z o.o.

ul. Aleksandrowska 28-30
87-100 Toruń, Poland

tel. +48 56 654 60 91
e-mail: twerd@twerd.pl

www.twerd.pl

