

## ON-BOARD CHARGER

### OBC-850v

#### OBC.850v:

Up to 850 V DC charging voltage , Highly efficient thanks to SiC semiconductors, 22 kW charging power: Upscale to 176 kW charging power (8 units in parallel operation) ,Compatible with various battery types, AC wallboxes, and DC charging stations , 3-phase and single phase inlet

#### Power Data:

- AC voltage range 3-phase : 360 – 480 V
- Max. AC phase current : 32 A
- AC frequency [ $\pm 1$  %] :45 – 65 Hz
- Power factor [3-phase operation]: > 99 %
- Starting inrush current : < 50 A
- DC voltage range : 550 – 850 V
- DC operating voltage: 9 – 32 V
- Max. charging power [3-phase input] :22 kW
- Max. charging power [1-phase input] :6.5 kW
- Max. DC charging current [3-phase input]: 32 A
- Charging mode : CCCV/CPCV
- Efficiency: > 96 %
- Ambient temperature : -30 °C to +60 °C
- Coolant temperature : -30 °C to +65 °C (beyond 50 °C with derating)

#### Mechanical Data:

- Dimensions w/o connectors [L × W ×H] : 326 x 212 x 86 mm
- Weight : < 6 kg
- Degree of protection : IP 67
- Type of cooling : Liquid

#### General Data:

- Communication interface: CAN-BUS
- Baud rate : 500 kBit/s
- Cable connection: HV: plug , Control: plug, LV output: bolt connection

#### PROTECTION SPECIFICATIONS:

- Protections : Input/output OVP/UVP, input reverse protection, output short circuit protection, over current protection, over temperature protection

#### APPLICATIONS:

- Public transportation
- Construction equipment
- Commercial vehicles
- Municipal vehicles
- Agricultural machines