



ON-BOARD CHARGER

- + 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

REFUdrive

OBC 22K

Compact and efficient component for high-voltage charging

www.refu-drive.com



POWER DATA (per charger)

| | | | |
|--|--|-------------|-------------|
| AC voltage range 3-phase | 360 – 480 V | | |
| Max. AC phase current | 32 A | | |
| AC frequency [± 1 %] | 45 – 65 Hz | | |
| Power factor [3-phase operation] | > 99 % | | |
| Starting inrush current | < 50 A | | |
| DC voltage range | 200 – 450 V | 420 – 800 V | 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] | 70 A | 40 A | 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) | | |

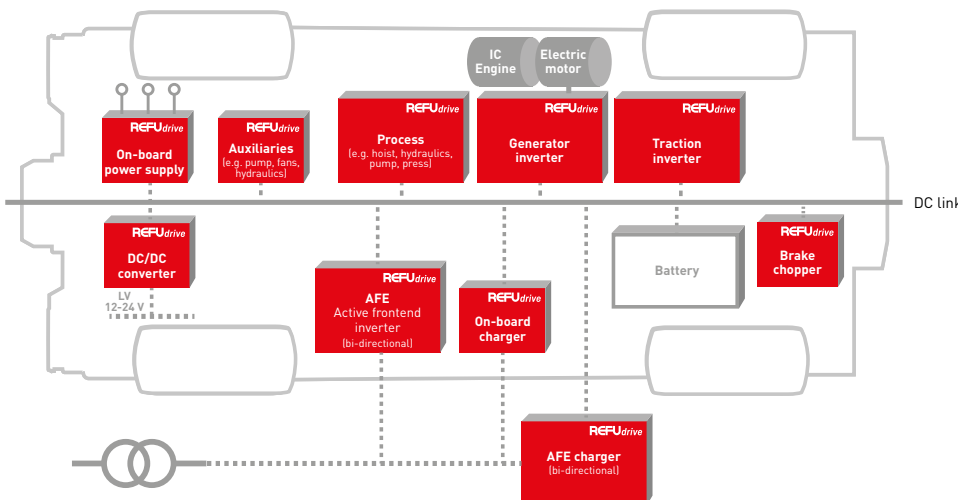
MECHANICAL DATA

| | | | |
|---|----------------------|--|--|
| Dimensions w/o connectors [L x W x H] | 460 x 348 x 96 mm | | |
| Dimensions incl. connectors [L x W x H] | 494 x 348 x 96 mm | | |
| Weight | 16 kg | | |
| Degree of protection | IP6K9K | | |
| Type of cooling | Liquid: water-glycol | | |

GENERAL DATA

| | | | |
|---|--|--|--|
| Interface | SAE J1939 | | |
| Electromagnetic compatibility | IEC 61851-21-1, 2014/30/EU, ECE R10 | | |
| Certification | CE, cURus, EAC, CCC, IEC 62196-2, IEC 62196-3, EN 61851-1:2011, 2014/35/EU, ISO 16750-3, LV124, M-04, Profile D, ISO 16750-4 | | |
| PLC (powerline communication) as option | EN 61851-24, ISO 15118, DIN SPEC 70121 | | |

POWERFUL DRIVE SOLUTIONS FOR E-MOBILITY



+ APPLICATIONS

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