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

TECHNICAL DATA	OBC22K-450	OBC22K-800	OBC22K-850
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)		

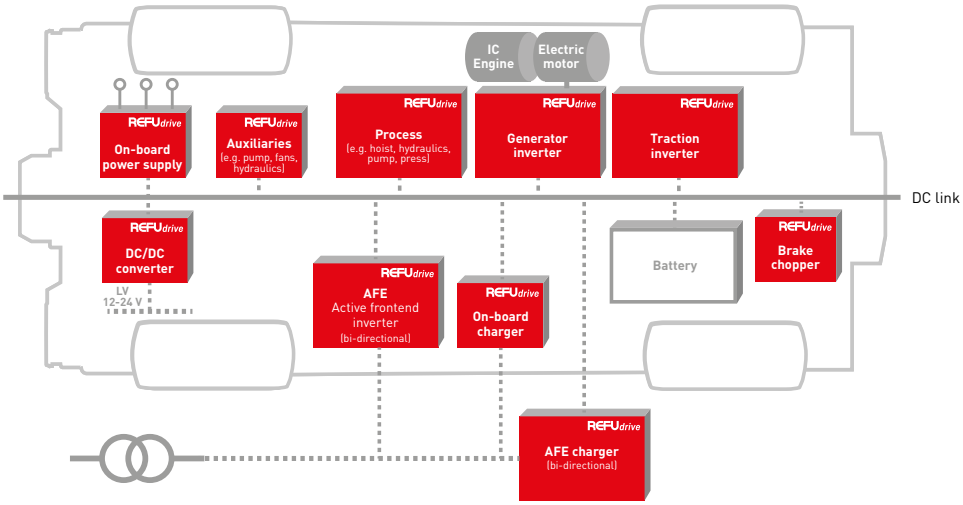
MECHANICAL DATA

Dimensions w/o connectors [L × W × H]	460 × 348 × 96 mm
Dimensions incl. connectors [L × W × H]	494 × 348 × 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

20230921_REFUdrive_22kW_On-Board-Charger_datasheet_EN_V11 | No responsibility is taken for the correctness of this information. Subject to modification.

REFU Drive GmbH
Marktstraße 185 | D-72793 Pfullingen | Phone +49 7121 4332-100 | info@refu-drive.com | www.refu-drive.com