GOZERO
PRETTL

AUTOMOTIVE QUALIFIED

DC/DC CONVERTER

- Peak power up to 6.2 kW
- Lightest in its category
- Efficiency > 94 %
- High volumetric & gravimetric power density
- AEC grade components

REFUdrive

RPCS DC4K-740 / DC6K-800

The converter for e-mobility application

www.refu-drive.com

TECHNICAL DATA	RPCSDC4K-740	RPCSDC6K-800
		

POWER DATA

DC output power	4 kW (peak 4.5 kW for 30 seconds)	5.6 kW (peak 6.2 kW for 30 seconds)
Nominal DC voltage range	520 V – 740 V	470 V – 800 V
DC input voltage range	450 V – 820 V	
Input current	< 9 A	< 15 A
Input capacitance	20 uF	10 uF
Output current @ 28 V DC	140 A	200 A
Output voltage	16 - 32 V	
Turn-on delay (from start to nominal voltage)	1 s	1 s
Output voltage ripple	1.75 % of V_{out}	2 % of V_{out}
Ambient temperature	-40 to 80 °C (no derating)	-40 to 85 °C (no derating)
Coolant temperature	-40 to 65 °C (no derating)	-40 to 60 °C (no derating)

MECHANICAL DATA

Dimensions w/o connectors [L × W × H]	400 x 261 x 98 mm	457 x 320 x 96 mm
Weight	7.8 kg	7.5 kg
Degree of protection	IP 67	
Type of cooling	Liquid: water-glycol	

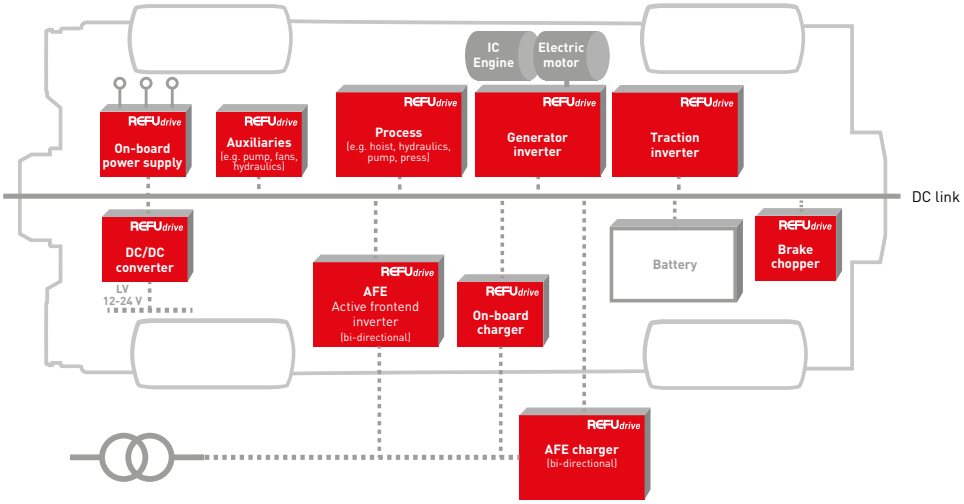
GENERAL DATA

Altitude (operating: 62 kPa absolute pressure)	up to 3,600 m
Communication interface	CANopen / CAN 2.0B
Baud rate	250 kBit/s or 500 kBit/s
Protective functions	HVIL function - HVIL pins shorted internally
Cable connection	HV: plug Control: plug LV output: bolt connection

PROTECTION SPECIFICATIONS

Output over-voltage protection (latch type, max. over-voltage duration 1ms)	32 V	
Input fuse protection (DC input: internal primary fuse)	12 A	20 A
Over-temperature protection (converter shutdown)	100 °C	

POWERFUL DRIVE SOLUTIONS FOR E-MOBILITY



+ APPLICATIONS

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

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