



REFUdrive

SINGLE / COMBI INVERTER

- + Wide range of application
- + Simplifying system solutions
- + Less effort for cooling
- + Saves hardware costs
- + High reliability

REFUdrive

RPCS 730-17K / -17K3K / -28K

Perfect match: drive, generate and charge low voltage

www.refu-drive.com



POWER DATA

AC output power @ 570 V DC	17 kVA	17 kVA	28 kVA
DC output power @ 570 V DC	-	3 kW / 24 V ±15% / max. 125 A (optional 1.5 kW/ 12 V ± 15% / max. 125 A)	-
Nominal DC voltage	750 V		
DC input voltage range	450 – 850 V	450 – 850 V	400 – 850 V
max. AC output voltage @ 3 AC	500 V	500 V	500 V
Rated current @ 4 kHz	25 A	25 A	40 A
Peak current for 60 s @ 4 kHz	27 A	27 A	48 A
Peak current for 1 s @ 4 kHz	30 A	30 A	60 A
Output frequency	0 – 599 Hz (optional up to 1,200 Hz)		
Control supply voltage	24 V DC (± 20 %) optional 12 V DC (± 20 %)		
Ambient temperature	-25 to 50 °C		-25 to 85 °C (beyond 45 °C with derating)
Coolant temperature	-		-25 to 55 °C

CONTROL HARDWARE

Analog I/O	1x IN (± 10 V or ± 20 mA)	2x IN (± 10 V or ± 20 mA) and 2x OUT (± 5V, max. 5 mA)	
Digital I/O	1x IN	4x IN / 4x OUT / 4x IN/OUT	4x IN / 4x OUT / 4x IN/OUT
Service interface	RS485		
Communication interface	CANopen / SAE J1939		
Motor temperature control	PTC, PT1000, KTY		
Encoder system	as option	as option	Encoder (HTL, TTL, sine/cosine encoder), resolver
Resolver input voltage	-	-	7 V _{rms}
Transformation ratio for resolver	-	-	0.286 or 0.5

MECHANICAL DATA

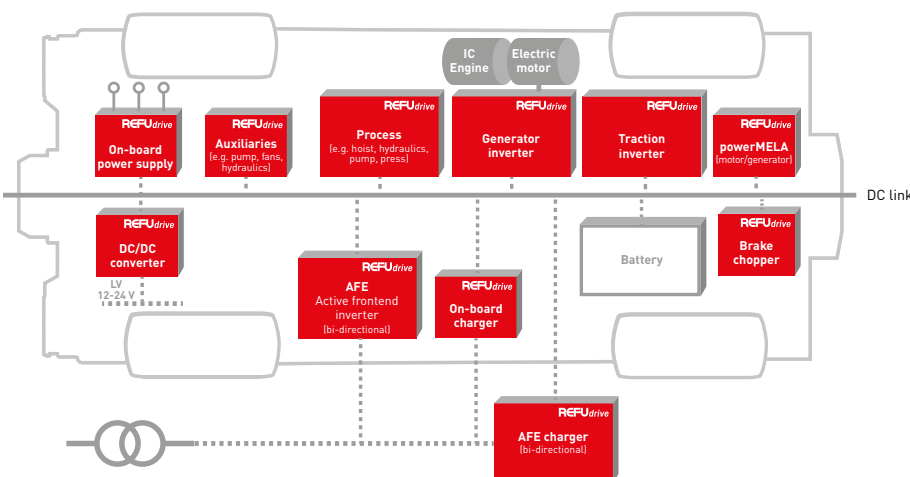
Dimensions w/o connectors [L x W x H]	324 x 306 x 146 mm	325 x 427 x 148 mm	354 x 300 x 105 mm
Weight	7.5 kg	15.5 kg	7.5 kg
Degree of protection	IP65, IP67 (as option IP68 and IP6K9K)		
Type of cooling	Air	Air	Liquid: water-glycol

GENERAL DATA

User Interface	REFUdriver software tool
Electromagnetic compatibility	UN ECE R10, EN 61800-3
Device protection	Short circuit, earth fault, over current, voltage and temperature monitoring, motor temperature monitoring
Configurations	Motor inverter, generator inverter, DC-DC converter, charging devices, on-board power supply
Cable connection	Cable gland / plug connector

Safety functions and E1 marking are available as an option

POWERFUL DRIVE SOLUTIONS FOR E-MOBILITY



+ APPLICATIONS

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