450 V

TRACTION INVERTER

- Highest degree of protection and reliability
- Flexible and individual configurations
- Proofed for harshed conditions
- Highest performance at maximum ambient and coolant temperature
- Suits to all types of motors

REFUdrive

RPCS 730-80K / -160K

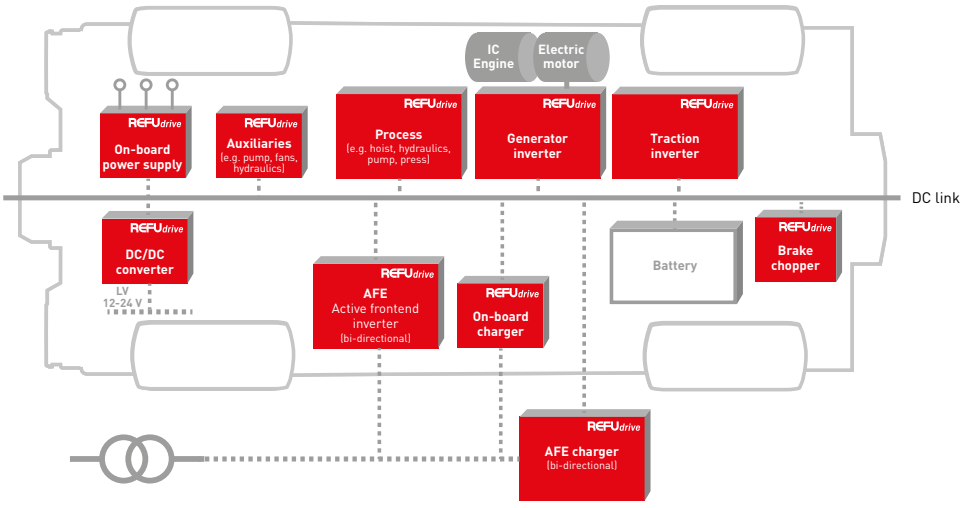
The powerful high voltage inverter for all drive applications

www.refu-drive.com

TECHNICAL DATA	RPCS730-80K	RPCS730-160K
POWER DATA		
AC output power @ 570 V DC	80 kVA	160 kVA
Nominal DC voltage	400 V	
DC input voltage range	100 – 600 V	
max. AC output voltage @ 3 AC	300 V	
Rated current @ 4 kHz	215 A	460 A
Peak current for 60 s @ 4 kHz	451 A	598 A
Peak current for 1 s @ 4 kHz	-	690 A
Output frequency	0 – 599 Hz (optional up to 1,200 Hz)	
Control supply voltage	24 V DC (± 20 %) optional 12 (± 20 %)	
Ambient temperature	-25 to 85 °C (beyond 45 °C with derating)	-25 to 85 °C (beyond 65 °C with derating)
Coolant temperature	-25 to 55 °C	-25 to 65 °C
CONTROL HARDWARE		
Analog I/O	1x IN (± 10 V or ± 20 mA) and 1x OUT (± 5V, max. 5 mA)	
Digital I/O	4x IN / 2x OUT / 4x IN/OUT	
Service interface	RS485	
Communication interface	CANopen / SAE J1939	
Motor temperature control	PTC, PT1000, KTY	
Encoder system	Resolver, HTL, TTL, sine/cosine encoder	
Resolver input voltage	7 V_{rms}	
Transformation ratio for resolver	0.286 or 0.5	
MECHANICAL DATA		
Dimensions w/o connectors [L × W × H]	425 × 320 × 143 mm	506 × 552 × 150 mm
Weight	22 kg	45 kg
Degree of protection	IP 67 (IP6K9K as option)	
Type of cooling	Liquid: water-glycol	
GENERAL DATA		
User Interface	REFUdriver software tool	
Electromagnetic compatibility	UN ECE R10, EN 61800-3	
Protective functions	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	HV: gland or plug / LV control: plug	

Safety functions and E1 marking are available as an option

POWERFUL DRIVE SOLUTIONS FOR E-MOBILITY



+ APPLICATIONS

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

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REFUdrive

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