

850 V

AUXILIARY INVERTER

- + Perfect match for air conditioning, power steering pump, hydraulic pump, and brake compressor
- + Increased touch safety due to active discharge in less than 1 seconds
- + Developed according ISO 26262
- + Sensorless vector control
- + Up to 65 °C coolant temperature w/o derating

REFUdrive

RPCS 740-2x17K / -17K / -25K

Drives two motors independently of each other in sensorless operation

www.refu-drive.com



POWER DATA

AC output power @ 650 V DC	2 x 17 kVA	17 kVA	25 kVA
Nominal DC voltage	650 V		
DC input voltage range	200 – 850 V		
max. AC output voltage @ 3 AC	0 – 500 V		
Recommended motor power @ 4 kHz	2 x 15 kW	15 kW	20 kW
Rated current @ 4 kHz	2 x 25 A	25 A	36 A
Peak current for 10 s @ 4 kHz	2 x 45 A	45 A	65 A
Peak current for 60 s @ 4 kHz	2 x 37.5 A	37.5 A	47 A
Peak current for 120 s @ 4 kHz	2 x 32.5 A	32.5 A	41 A
Peak current for 240 s @ 4 kHz	2 x 28.7 A	28.7 A	38 A
Output frequency	0 – 599 Hz (optional up to 1,600 Hz)		
Control supply voltage	9 – 36 V		
Ambient temperature	-40 to 85 °C (beyond 50 °C with derating)		
Coolant temperature	-40 to 65 °C		
Altitude	max. 4,000 m a.s.l.		

CONTROL HARDWARE

Digital I/O	4		
Service interface	CANopen / SAE J1939		
Communication interface	CANopen / SAE J1939		
Motor temperature control	PTC, PT1000		

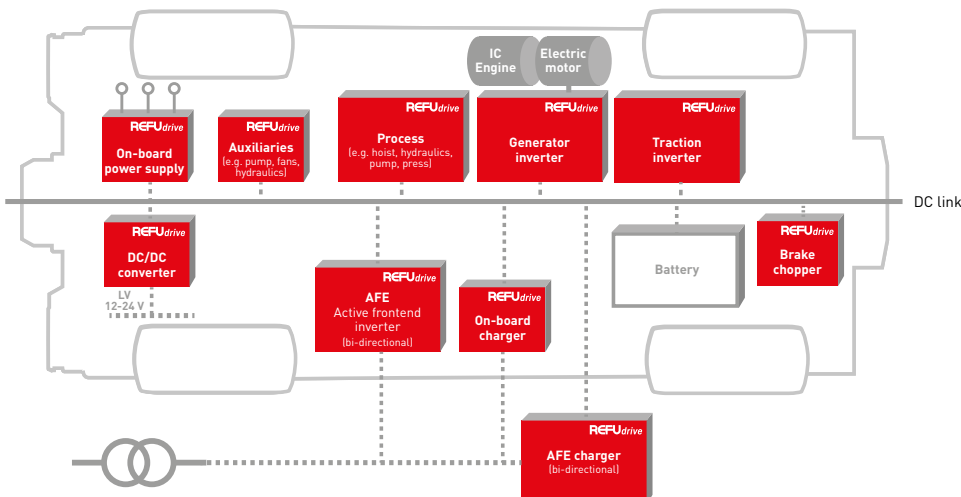
MECHANICAL DATA

Dimensions w/o connectors [L x W x H]	300 x 391 x 85 mm	320 x 228 x 99 mm	
Weight	8 kg	< 5 kg	
Degree of protection	IP6K9K		
Type of cooling	Liquid: water-glycol		

GENERAL DATA

User Interface	REFUdriver software tool		
Electromagnetic compatibility	UN ECE R10, AIS004-Part3		
Safety	ECE R100, ISO 6469-3, EN 61800-5-1, developed according ISO 26262		
Protective functions	Short circuit, earth fault, over current, voltage and temperature monitoring, motor temperature monitoring		
Configurations	Motor inverter, generator inverter, on-board power supply		
Cable connection	Plug		
Generals	Active discharge < 1 sec., sensorless vector control		

POWERFUL DRIVE SOLUTIONS



+ APPLICATIONS

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