

**AUTOMOTIVE  
QUALIFIED**

### DC/DC CONVERTER

- + Compact footprint
- + Lightest in its category
- + Efficiency > 95 %
- + High volumetric & gravimetric power density
- + AEC grade components

**REFU**drive

## RPCS 790-DC3K / -DC4K / -DC6K

The converter for e-mobility application

[www.refu-drive.com](http://www.refu-drive.com)



**POWER DATA**

DC output power	3 kW	4 kW	6 kW
DC input voltage range	200 – 500 VDC	400 – 900 VDC	400 – 750 VDC*
Output current	109 A	145 A	218 A
Output voltage	27.5 VDC (opt. 13.8 VDC)		
Output voltage accuracy	+/- 1 %		
Output voltage ripple	≤ 500 m Vpk-pk		
Auxiliary voltage	9 – 32 VDC		
Ambient temperature	-40 to 85 °C		
Coolant temperature	-40 to 60 °C		

**MECHANICAL DATA**

Dimensions w/o connectors [L x W x H]	326 x 212 x 86 mm		
Weight	< 6 kg		
Degree of protection	IP 67		
Type of cooling	Liquid		

**GENERAL DATA**

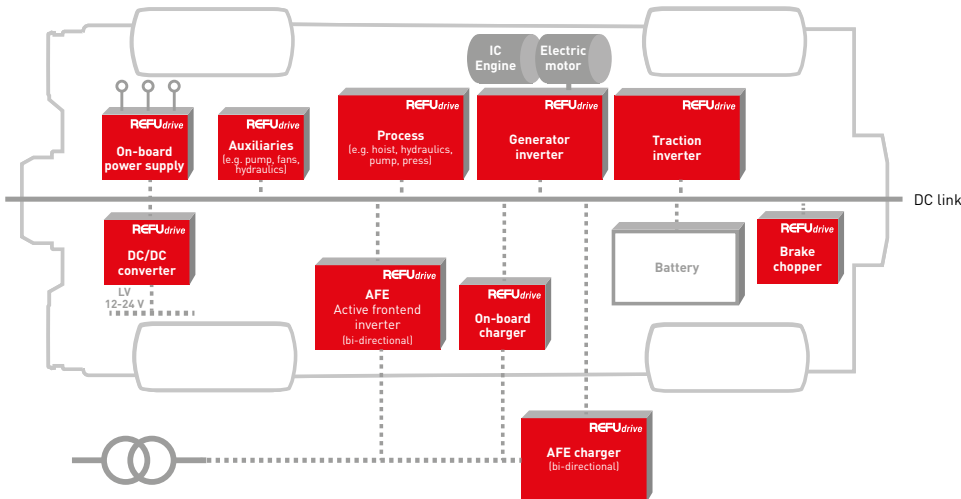
Communication interface	CAN-BUS		
Baud rate	500 kBit/s		
Cable connection	HV: plug Control: plug LV output: bolt connection		

**PROTECTION SPECIFICATIONS**

Protections	Input/output OVP/UVP, input reverse protection, output short circuit protection, over current protection, over temperature protection		
-------------	---	--	--

\*900 VDC available in Q4/2025

**POWERFUL DRIVE SOLUTIONS FOR E-MOBILITY**



**+ APPLICATIONS**

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