

Kempower Control Unit

With charging cable



Kempower Control Unit with a CCS2 cable is the optimal solution for depot and off-highway charging, where a robust and simplified dispenser is required.

Control Unit is connected to the Kempower Power Unit. The charging system can also include Kempower Satellite and Pantograph units, providing flexibility for designing a site that supports different charging needs.

The maximum available charging power of the system is 600 kW, depending on the Power Unit version.

One Power Unit can simultaneously provide energy for up to 8 DC charging outputs with 800 VDC systems and up to 6 outputs with Adaptive Voltage systems, covering both 400 and 800 VDC charging.

Maximum charging power of the Control Unit

240 kW

Number of charging outputs in the system

1–8



- 1 Control button with LED indicator
- 2 Front panel lock
- 3 LED indicator for SOC and charging status
- 4 Equipment stop button
- 5 Charging cable
- 6 Supply DC power cable
- 7 Cable strain reliefs for control cable, control bus, and additional equipment stop cable



Robust charging output solution for challenging environments



Cabling distance between the Power Unit and Control Unit up to 80 meters



Advanced charging control and customization with Kempower ChargeEye

Product code interpretation

PB•C•5•C•N•E Kempower Control Unit • 1 x CCS2 connector • 5 m charging cable • 200 A cable current • no display • equipment stop button installed

Item	Code	Description
Product type	PB	Kempower Control Unit
Vehicle connector type	C	CCS2
Charging cable length	5	5 m
	7	7 m
	10	10 m ^[1]
Nominal charging cable current	C	200 A
	E	300 A
Display	N	No display
Equipment stop	E ^[2]	Equipment stop button installed on the unit

[1] Only 200 A nominal charging cable current.
[2] If not defined in the product code, the equipment stop button is included in the delivery as a separate part.

General electrical specifications

DC charging connector options	CCS2 IEC 62196-3
Voltage	Max. 1000 VDC
Standby power	15 W

Environmental specifications

Operating temperature	-30...+50 °C
Derating	Charging cable pin temperature limits charging current. For other limiting variables, see the applicable Power Unit datasheet.
Storage temperature	-40...+60 °C
Ambient air humidity	< 95% relative humidity
Enclosure rating	IP54, IK10

Connections and protocols

Ethernet	RJ45, IEEE 802.3/802.3u
OCPP	1.6j/2.0.1
Connectivity	Kempower ChargeEye solution
CCS2	DIN 70121:2012, ISO 15118:2013, ISO 15118:2010
Authentication methods	Customer backend via OCPP AutoCharge ISO 15118-2 Plug & Charge

Electrical connections (between Control Unit and Power Unit)

DC power cable per vehicle connector
200 A: terminals 2 x 95 mm² per pole 300 A: terminals 2 x 150 mm² per pole
Control cable 24 VDC
Control bus cable

Electrical protections

Vehicle connector pin temperature monitoring
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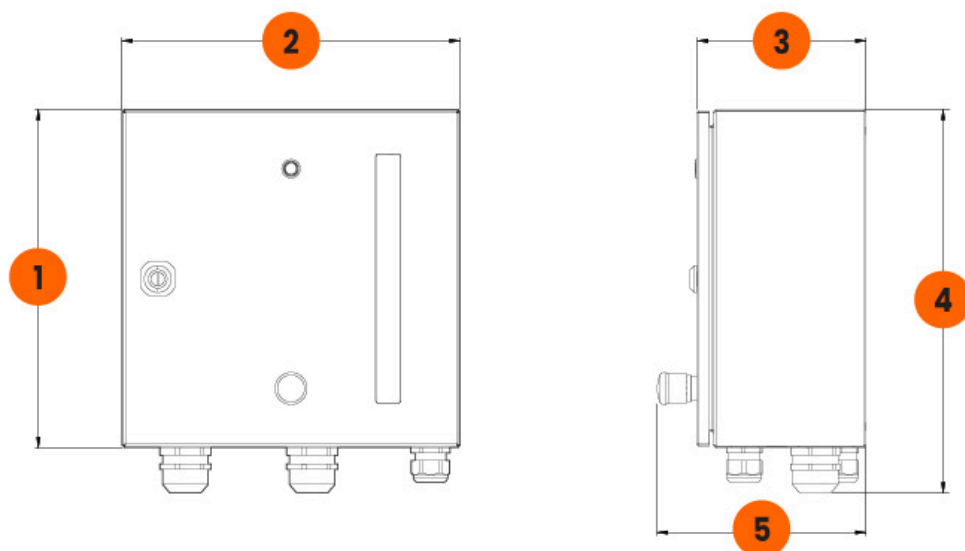
Product code	Charging outputs	Vehicle connector	Max. charging current	Charging power at 400 VDC	Charging power at 800 VDC	Weight
PB•C•5•C•N•E	1	CCS2	200 A	80 kW	160 kW	23.5 kg
PB•C•5•E•N•E	1	CCS2	300 A	120 kW	240 kW	31 kg
PB•C•7•C•N•E	1	CCS2	200 A	80 kW	160 kW	25.5 kg
PB•C•7•E•N•E	1	CCS2	300 A	120 kW	240 kW	38 kg
PB•C•10•C•N•E	1	CCS2	200 A	80 kW	160 kW	28.5 kg

IEC 61851-1
IEC 61851-23
IEC 61851-21-2

CE-marked Control Unit with CCS1 300 A cable is available upon request

Size (W x H x D)

400 x 400 x 200 mm



1	400 mm	4	454 mm
2	400 mm	5	247 mm
3	200 mm		