

Kempower Station Charger C800



The Kempower Station Charger is the all-in-one DC charging solution with dynamic power management.

The Station Charger is a powerful all-in-one solution for electric vehicle fast charging sites. Utilizing Kempower's user-friendly cable system, the Station Charger can have one or two DC charging outputs. With different combinations of 50 kW power modules, the Station Charger harnesses the full potential of on-demand power routing, saving both energy and costs.

A double cabinet Station Charger can have up to eight 50 kW power modules, providing a maximum charging power of up to 400 kW.

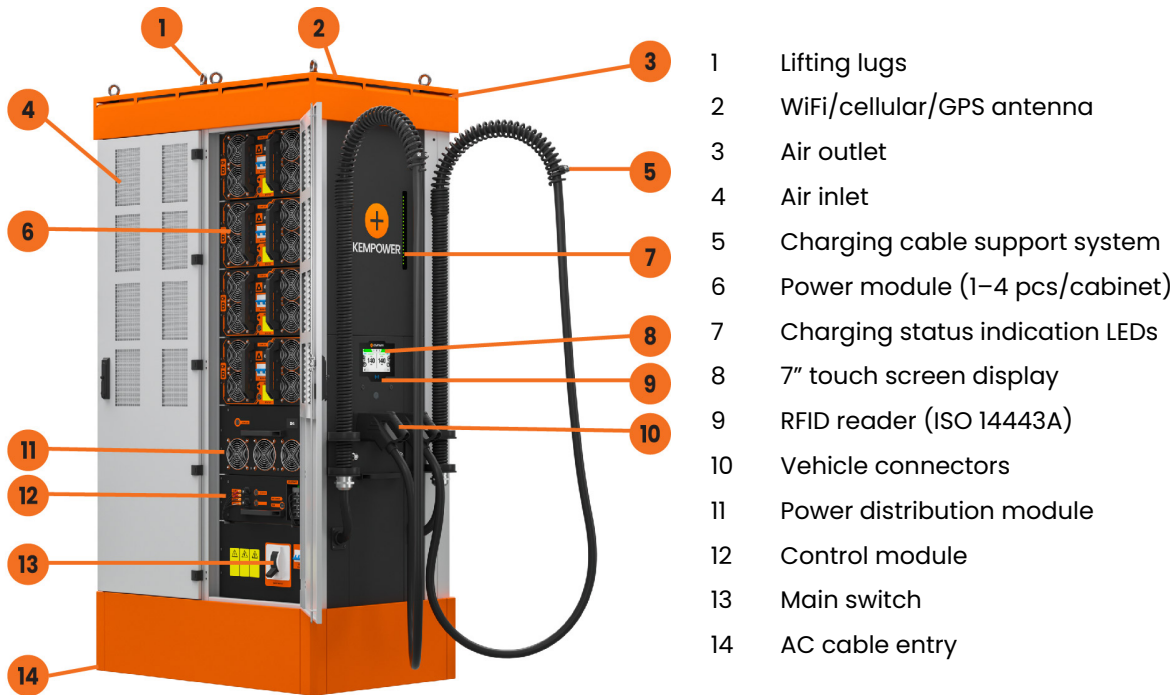
With dynamic power management, the available charging power of all power modules is automatically distributed to all connected charging outputs, depending on the charging cable used and the requirements of the electric vehicles.

Power range

Up to **400 kW**

Number of charging outputs

1-2



Advanced cable support system (pat. pend.) for premium user experience



Scalability with add-on power modules



Improved cost efficiency of the charging system



Possibility to add up to 2 external Kempower Satellites



Lockable door for safety and easy access



Advanced charging control and customization with Kempower ChargeEye

Product code interpretation

C801•P160•UU•7•C•P•D2•L•C0 Kempower Station Charger 800 V single cabinet • 200 kW charging power • 2 x CCS1 vehicle connector • charging cable length 23 ft. • nominal charging cable current 200 A • Payter P68 payment terminal • up to 2 dynamic outputs • ETL certification • unbranded

Item	Code	Description
Product type	C801	Kempower Station Charger 800 V single cabinet
	C802	Kempower Station Charger 800 V double cabinet
Charging power*	P160	200 kW (4 modules)
	P320	400 kW (8 modules)
	N	When in front of the vehicle connector type, indicates that there is only one connector
Vehicle connector type	D	CHAdEMO
	U	CCS1
	UU	2 x CCS1
	UD	CCS1 & CHAdEMO
Charging cable length	5	16.4 ft.
	7	23 ft.
Nominal charging cable current	B	125 A (CHAdEMO)
	C	200 A (CCS1)
	E	300 A/350 A** (CCS1)
User interface and payment	S	Standard user interface
	P	Payter P68 payment terminal with contactless, chip reader, and magnetic stripe (no PIN pad)
Power distribution modules	D2	Up to 2 dynamic outputs
Certification	L	ETL approved
Branding options	C0	Unbranded: roof and base in black color, no stickers
	Cn	Branded: number (n) indicates branding, e.g. C8

* Standard operation. See Power performance table for details.

** With 300 A charging cables:
350 A (rated) in 77°F. Requires at least 2 output terminals and a specific hardware configuration.

General electrical specifications

Input voltage	380...480 VAC +6%/-10%
Input frequency	50...60 Hz
Output voltage	200...920 VDC
Power factor at full load	0.92
Efficiency at full load	94%
Idle power	20 VA
Standby power	C801: 50 W C802: 180 W
Overvoltage category	III
Icc	35 kA
Network type	TN-S, TN-C, TN-C-S, TT

Environmental specifications

Operating temperature	-22...122 °F
Current derating	Maximum charging current decreases 2% for every 1.8 °F rise in temperature above 77 °F
Maximum altitude without derating	6562 ft.
Altitude derating	Maximum charging current decreases 1.4% for every 328 ft. rise above 6562 ft.
Operational noise level	Wall side: < 57 dB at 3.3 ft. distance Door side: < 62 dB at 3.3 ft. distance
Storage temperature	-40...140 °F
Ambient air humidity	< 95% relative humidity
Enclosure rating	Suitable for outdoor use

Connections and protocols

WiFi	802.11 b/g/n (2.4/5 GHz)
Cellular/GPS	LTE-FDD, LTE-TDD, WCDMA, GSM
Ethernet	RJ45, IEEE 802.3/802.3u
OCPP	1.6j/2.0.1
Connectivity	Kempower ChargeEye solution

Electrical protections

Over/undervoltage
Surge protection
Short circuit
Overload protection
Earth leakage current monitoring
Device overtemperature

Power performance

Product type	Number of power modules	Number of independent AC supply cables*	Standard operation			Continuous operation		
			Charging power	Input current per supply cable at 400 V	Input current per supply cable at 480 V	Charging power	Input current per supply cable at 400 V	Input current per supply cable at 480 V
C801	1	1	50 kW	91 A	76 A	40 kW	73 A	61 A
	2	1	100 kW	181 A	151 A	80 kW	145 A	121 A
	3	1	150 kW	272 A	227 A	120 kW	218 A	182 A
	4	1	200 kW	362 A	302 A	160 kW	290 A	242 A
C802	5	2	250 kW	91 A	76 A	200 kW	73 A	61 A
	6	2	300 kW	181 A	151 A	240 kW	145 A	121 A
	7	2	350 kW	272 A	227 A	280 kW	218 A	182 A
	8	2	400 kW	362 A	302 A	320 kW	290 A	242 A

* Each cabinet has a dedicated supply cable.

Figure 1. Power curve (standard operation)

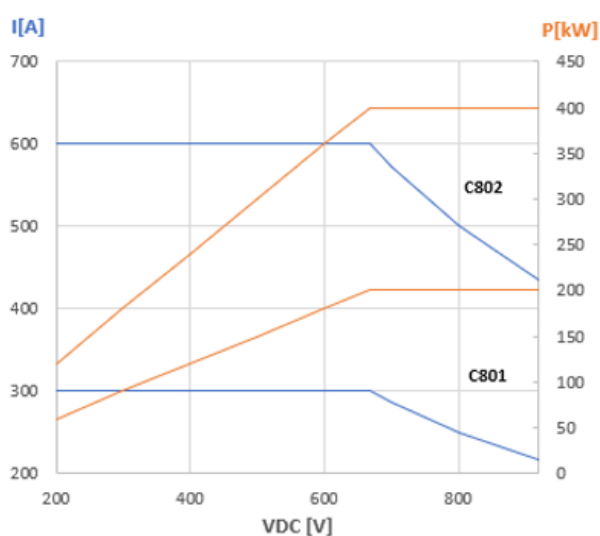
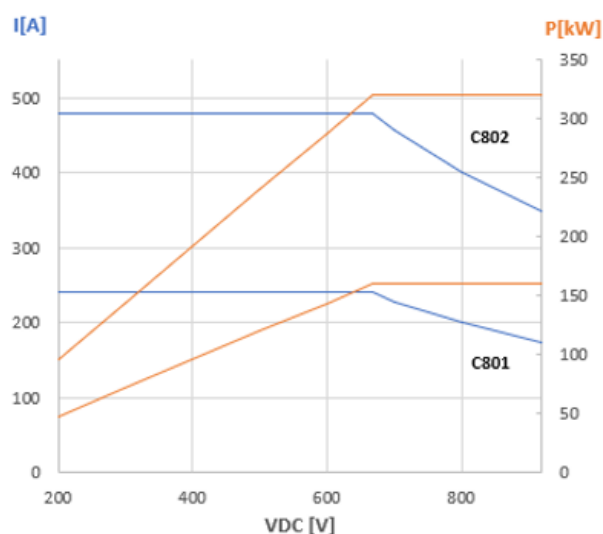


Figure 2. Power curve (continuous operation)



Product codes

Product code	Vehicle connector	Max. charging current	Max. DC charging power at 800 VDC*
C801•UU•x•C•L	2 x CCS1	2 x 200 A	2 x 160 kW
C801•UU•x•D•L	2 x CCS1	2 x 250 A	2 x 200 kW
C801•UU•x•E•L	2 x CCS1	2 x 300 A/350 A**	2 x 200 kW
C801•UD•x•CB•L	CCS1 & CHAdeMO	200 A & 125 A	160 kW & 100 kW
C801•UD•x•DB•L	CCS1 & CHAdeMO	250 A & 125 A	200 kW & 100 kW
C801•UD•x•EB•L	CCS1 & CHAdeMO	300 A/350 A** & 125 A	200 kW & 100 kW

Product code	Vehicle connector	Max. charging current	Max. DC charging power at 800 VDC*
C802•UU•x•C•L	2 x CCS1	2 x 200 A	2 x 160 kW
C802•UU•x•D•L	2 x CCS1	2 x 250 A	2 x 240 kW/280 kW
C802•UU•x•E•L	2 x CCS1	2 x 300 A/350 A**	2 x 240 kW/280 kW
C802•UD•x•CB•L	CCS1 & CHAdeMO	200 A & 125 A	160 kW & 100 kW
C802•UD•x•DB•L	CCS1 & CHAdeMO	250 A & 125 A	200 kW & 100 kW
C802•UD•x•EB•L	CCS1 & CHAdeMO	300 A/350 A** & 125 A	240 kW/280 kW & 100 kW

* Depends on the number of installed power modules

** With 300 A charging cables:

350 A (rated) in +77°F. Requires at least 2 output terminals and a specific hardware configuration.

Note: Depending on the required cable length, replace x in the product code with 5 or 7, e.g. C802•UD•5•CB•L for a 16.4 ft. cable.

IEC 61851-1, IEC 61851-23, IEC 61851-21-2 , IEC 62196-3
UL 2202, UL 2231-1, UL 2231-2
CSA Std. c22.2 No. 281.2, CSA Std. c22.2 No. 107.1
EMC Class A FCC Part 15

Customized branding	Branding options, such as custom colors and stickers Contact Kempower for availability, pricing, and minimum order quantity
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Size (W x H x D)	Weight
C801: 25.6 x 94.3 x 33.1 in.	Maximum 1157 lb.
C802: 49.2 x 94.3 x 33.1 in.	Maximum 2039 lb.

1	94.3 in.	3	25.6 in.	5	33 in.	7	54.6 in.	9	33.1 in.
2	25.4 in.	4	31 in.	6	32.5 in.	8	49.2 in.		