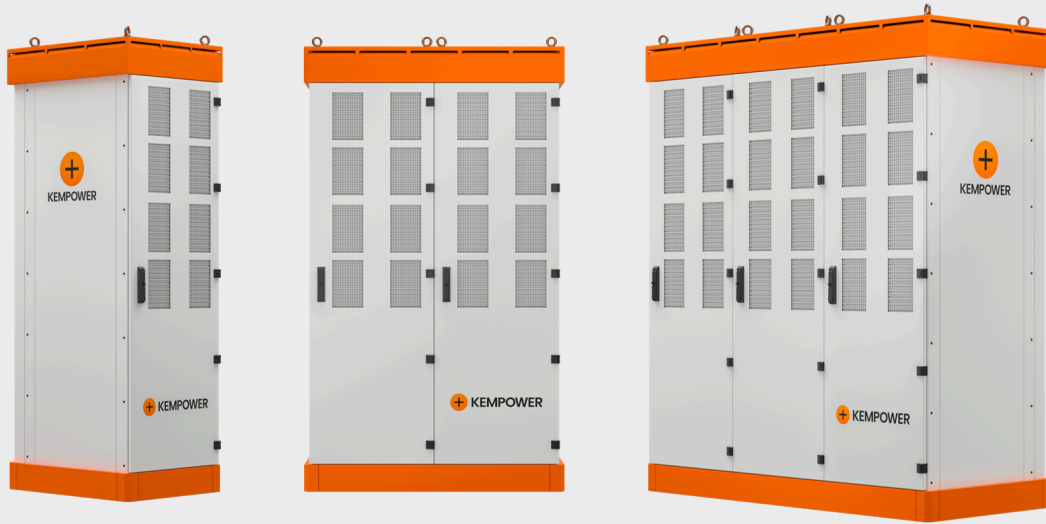


Kempower Power Unit C800



The Kempower Power Unit is the heart of Kempower's flexible, modular and scalable DC charging system with dynamic power management.

One Power Unit can simultaneously provide energy for up to 8 DC charging outputs: Satellites or Pantographs. With different combinations of 50 kW power modules, the Power Unit's unique dynamic power management harnesses the full potential of on-demand power routing, saving both energy and costs.

A triple cabinet Power Unit can have up to 12 x 50 kW power modules, providing a maximum nominal power of up to 600 kW.

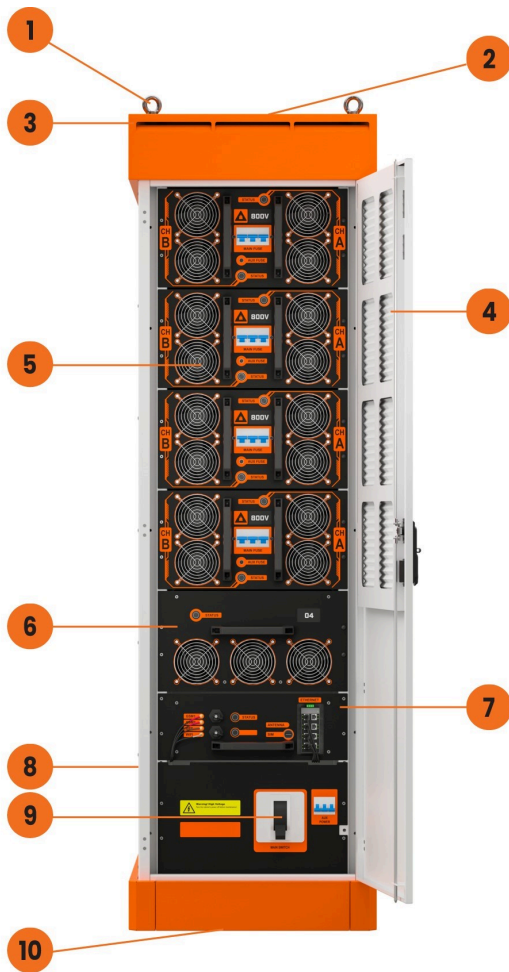
With dynamic power management, the available charging power of all power modules is automatically distributed to all connected charging outputs, depending on the charging cable used and the requirements of the electric vehicles. With static power management, each power module provides pre-set charging power to one dedicated charging output.

Power range

50-600 kW

Number of charging outputs in the system

1-8



- 1 Lifting lugs
- 2 WiFi/cellular/GPS antenna
- 3 Air outlet
- 4 Air inlet
- 5 Power module (1-4 pcs/cabinet)
- 6 Power distribution module
- 7 Control module
- 8 DC output
- 9 Main switch
- 10 AC cable entry



Charging power for up to 8 charging outputs, 8 single Satellites or 4 double Satellites



1-4 50 kW power modules per Power Unit



Scalability with add-on power modules



Improved cost efficiency of the charging system



Lockable door for safety and easy access



Advanced charging control and customization with Kempower ChargeEye

Product code interpretation

C801•P160•N•D4•L•C0

Kempower Power Unit C800 single cabinet • 200 kW charging power • no vehicle connector • up to 4 dynamic outputs • ETL certification • unbranded

Item	Code	Description
Product type	C801	Kempower Power Unit C800 single cabinet*
	C802	Kempower Power Unit C800 double cabinet*
	C803	Kempower Power Unit C800 triple cabinet*
Charging power**	P160	200 kW (4 modules)
	P320	400 kW (8 modules)
	P480	600 kW (12 modules)
Vehicle connector type	N	No connector
Power distribution modules	D4	Up to 4 dynamic outputs***
	D6	Up to 6 dynamic outputs***
	D8	Up to 8 dynamic outputs***
	S4	Up to 4 static outputs***
	S8	Up to 8 static outputs***
Certification	L	ETL-approved product
Branding options	C0	Unbranded: roof and base in black color, no stickers
	Cn	Branded: number (n) indicates branding, e.g. C8

* The rated current of a single charging output terminal using a power distribution module is limited to 200 A.

** 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: 100 W
	C803: 150 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	Charging current decreases 1.5% for every 1.8 °F rise in temperature above 104 °F
Maximum altitude without derating	6562 ft.
Altitude derating	Charging current decreases 1.4% for every 328 ft. rise above 6562 ft.
Operational noise level	< 60 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 ChargEye 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
C803	9	3	450 kW	91 A	76 A	360 kW	73 A	61 A
	10	3	500kW	181 A	151 A	400 kW	145 A	121 A
	11	3	550 kW	272 A	227 A	440 kW	218 A	182 A
	12	3	600 kW	362 A	302 A	480 kW	290 A	242 A

* Each cabinet has a dedicated supply cable.

Figure 1. Power curve (standard operation)

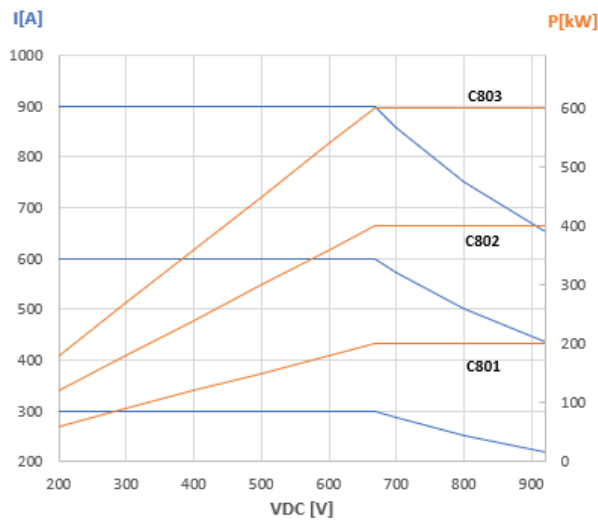
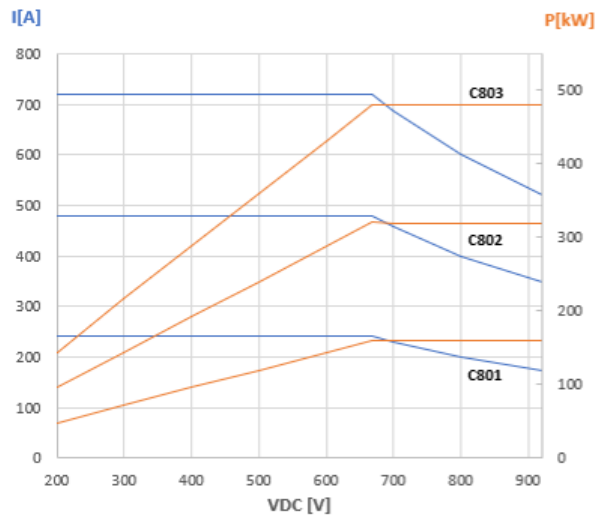


Figure 2. Power curve (continuous operation)



Compliance to standards

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

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

Options

Customized branding

Branding options, such as custom colors and stickers
Contact Kempower for availability, pricing, and minimum order quantity

Steel base

Installation kit for a single cabinet, for flat surface assembly

Mechanical dimensions

Size (W x H x D)

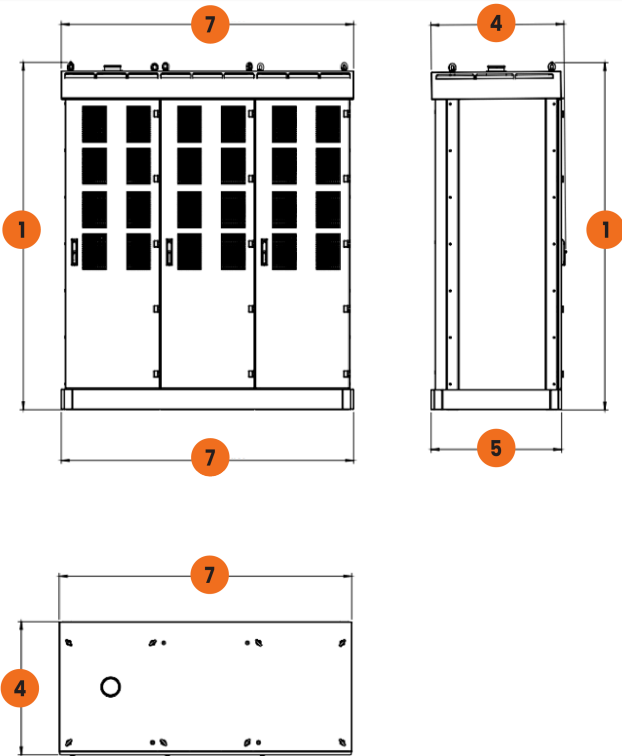
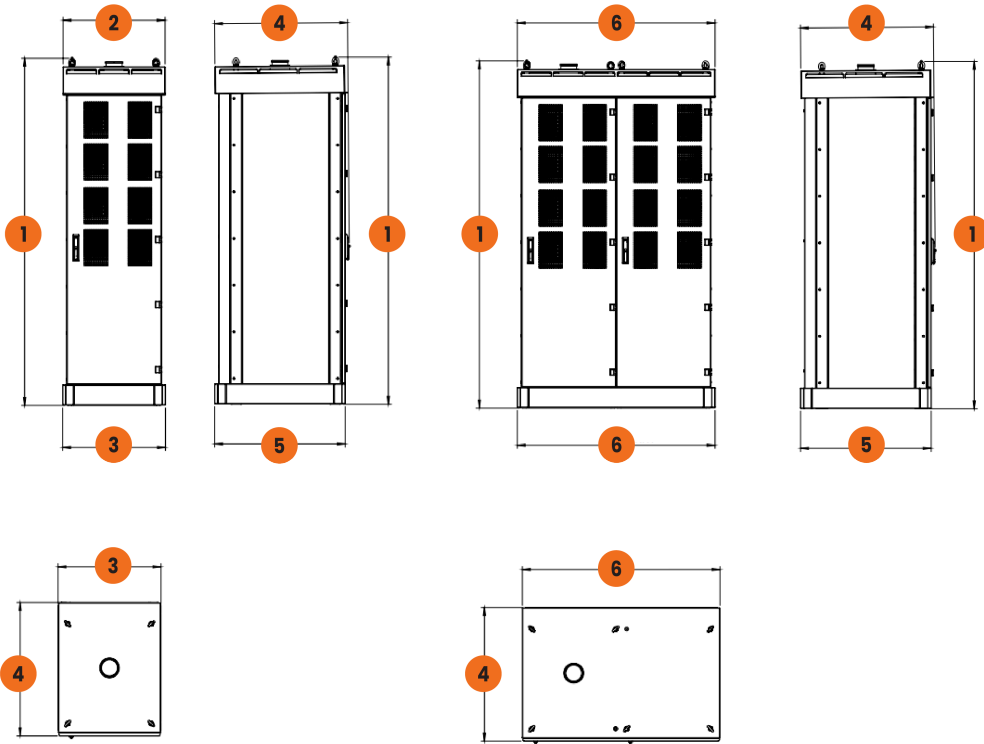
C801: 25.6 x 86.4 x 33.1 in.

C802: 49.2 x 86.4 x 33.1 in.

C803: 72.8 x 86.4 x 33.1 in.

Weight

C801P40...	617 lb.
C801P80...	705 lb.
C801P120...	794 lb.
C801P160...	882 lb.
C802P200...	1499 lb.
C802P240...	1587 lb.
C802P280...	1676 lb.
C802P320...	1764 lb.
C803P360...	2381 lb.
C803P400...	2469 lb.
C803P440...	2557 lb.
C803P480...	2646 lb.



- | | | | | | | | |
|---|----------|---|----------|---|----------|---|----------|
| 1 | 86.4 in. | 3 | 25.6 in. | 5 | 32.5 in. | 7 | 72.8 in. |
| 2 | 25.4 in. | 4 | 33.1 in. | 6 | 49.2 in. | | |