

Kempower Movable Charger

The Kempower Movable Charger is the stand-alone, mobile solution for fast DC charging of all types of electric vehicles.

The Movable Charger can be used anywhere: events, bus & truck depots, logistics centers, car service shops, and other locations where fast charging is needed.

The Movable Charger can have one or two DC charging outputs, with CCS1, NACS and CHAdeMo as options. The available charging power is automatically distributed between the charging outputs.

There are two output voltage levels: 400 VDC and 800 VDC.



Power range

Up to **50 kw**

Number of outputs

1-2



- 1 7" touch screen display
- 2 RFID reader
- 3 Vehicle connectors
- 4 Charging status indication LEDs
- 5 Removable wheels
- 6 Mounting pad



**Movable Charger for easy use
wherever needed**



Easy to commission & use



**On-screen QR code for
following the charging status
on your mobile phone**



**Removable wheels for fixed
installation**



**Stand-alone charging
system**



**Advanced charging control
and customization with
Kempower ChargeEye**

Product code interpretation

T800•P40•UN•7•AD•S•L•C0 Kempower Movable Charger T800 • 50 kW charging power • CCS1 & NACS vehicle connectors • usable charging cable length 21 ft./6.5 m • nominal charging cable current 80 A & 250 A • standard user interface • North American market • unbranded

Item	Code	Description
Product type	T500	Kempower Movable Charger T500 with 470 VDC Power Module
	T800	Kempower Movable Charger T800 with 920 VDC Power Module
Charging power at nominal output voltage	P40	50 kW standard
		40 kW continuous
Vehicle connector type	U	CCS1
	UU	2 x CCS1
	UD	CCS1 & CHAdeMO
	UN	CCS1 & NACS
Charging cable length	5	15 ft./4.5 m (usable)
	7	21 ft./6.5 m (usable)
Nominal charging cable current	A	80 A (CCS1)
	B	125 A (CHAdeMO), 150 A (CCS1)
	D	250 A (NACS) ^[1]
User interface	S	Standard user interface
Certification	L	North American version (ETL-approved product meeting UL and CSA requirements)
Branding options	C0	Unbranded, no stickers
	Cn	Branded: number (n) indicates branding, e.g. C8

[1] Available as CCS1 150 A & NACS 250 A in Movable Charger T500 and CCS1 80 A & NACS 250 A in Movable Charger T800.

Product codes

Product code	Charging outputs	Vehicle connector	Nominal charging cable current
T500			
T•U•5B•S•L	1	CCS1	150 A
T•UU•5B•S•L	2	2 x CCS1	2 x 150 A
T•UD•5B•S•L	2	CCS1 & CHAdeMO	150 A & 125 A
T•UN•5BD•S•L	2	CCS1 & NACS	150 A & 250 A
T800			
T•U•5A•S•L	1	CCS1	80 A
T•UU•5A•S•L	2	2 x CCS1	2 x 80 A
T•UD•5A•S•L	2	CCS1 & CHAdeMO	80 A & 125 A
T•UN•5AD•S•L	2	CCS1 & NACS	80 A & 250 A

Note: Versions with 21 ft./6.5 m (usable) charging cables, change 5 to 7 in the product code, e.g. from T500•P40•CD•5B•S to T500•P40•CD•7B•S.

Note: For CCS2 vehicle connector availability, contact Kempower.

Note: T800 with CHAdeMO, voltage and power limitations apply.

General electrical specifications

DC vehicle connector options	CCS1, NACS and CHAdeMO
Input AC connection	3P+PE 100 A
Input AC supply connector	AC input cable with flying leads provided. Input connector not included. Customer installs preferred connector. ^[1]
Supply cable length	16.4 ft./5 m
Input nominal voltage	480 VAC
Input operating voltage	T500: 480 VAC ±6% T800: 380...480 VAC +6%/-10%
Network type	TN-S, TN-C, TN-C-S
Input frequency	50/60 Hz
Overvoltage category	III (IEC 60664-1)
Rated conditional short-circuit current	25 kA
Power factor at full load	0.92
Nominal input power	58 kVA (at nominal input voltage)
Efficiency at full load	94%
Idle power	20 VA

^[1] Kempower application note provides suggestions for an input connector to source.

Environmental specifications

Operating temperature	-22...122 °F/-30...+50 °C
Current derating	Charging current decreases 1.5% for every 1.8 °F/1 °C rise in temperature above 104 °F/+40 °C
Maximum altitude without derating	6,562 ft./2000 m
Altitude derating	Charging current decreases 1.4% for every 328 ft./100 m rise above 6,562 ft./2000 m
Operational noise level	< 60 dB at 3.3 ft./1 m distance
Storage temperature	-40...140 °F/-40...+60 °C
Ambient air humidity	< 95% relative humidity
Enclosure rating	Suitable for outdoor use

Connections and protocols

WiFi	2.4/5 GHz (802.11 b/g/n)
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
CCSI	SAE J1772/CCS, DIN 70121:2012, ISO 15118-1:2013, ISO 15118-2:2014
CHAdemo	0.9/1.0
Authentication methods	RFID: ISO 14443A, ISO 15693, ISO 14443B (STM SRI512) Customer backend via OCPP AutoCharge ISO 15118-2 Plug & Charge

Electrical protections

Over/undervoltage
Surge protection
Short circuit
Overload protection
Earth leakage current monitoring
Device overtemperature
Vehicle connector pin temperature monitoring

DC charging output

	T500	T800
Nominal output power at 480 VAC	Up to 50 kW for one output or 25 kW each for two outputs at 400 VDC or higher	Up to 50 kW for one output or 25 kW each for two outputs at 667 VDC or higher
Maximum output current	2 x 63 A, 1 x 125 A	2 x 37 A, 1 x 75 A
Output voltage range	150...470 VDC	200...920 VDC

Compliance to standards

IEC 61851-1, IEC 61851-23, IEC 61851-21-2 , IEC 62196-3, IEC 60309
UL 2202, UL 2231-2
CSA Std. c22.2 No. 281.2, CSA Std. c22.2 No. 107.1
C22.2 No. 182.1-13
FCC 47 CFR Part 15 Subpart B, Class A

Options

CCS2 vehicle connectors	Available upon request
Customized branding	Branding options, such as custom colors and stickers Contact Kempower for availability, pricing, and minimum order quantity

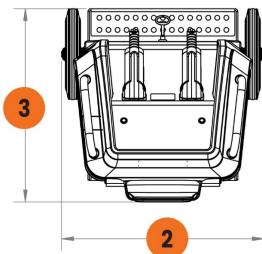
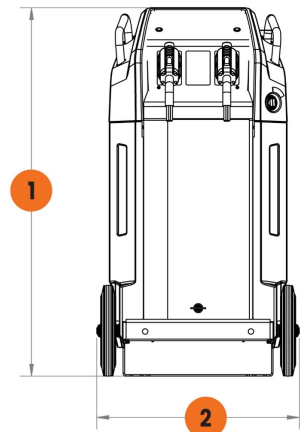
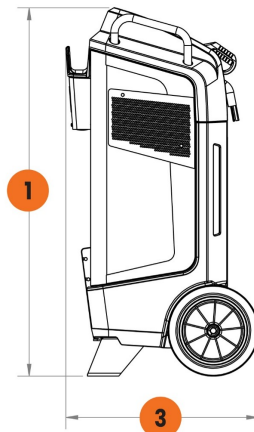
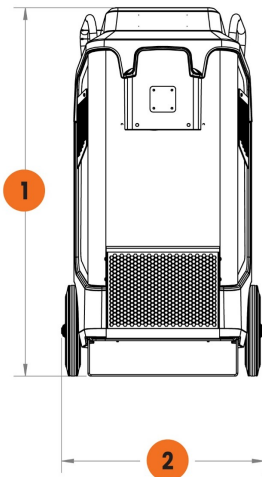
Mechanical dimensions

Size (W x H x D)

25.1 x 47.9 x 26 in./638 x 1216 x 670 mm

Weight

1 charging cable	309–331 lb./140–150 kg
2 charging cables	353–397 lb./160–180 kg



- 1 47.9 in./1216 mm
- 2 26.4 in./670 mm
- 3 25.1 in./638 mm

**CERTIFIED
KEMPOWER
PARTNER**



EVOCHARGE®

9700 West 74th Street, Eden Prairie, MN
55344

Phone: 952-829-2300

Toll-Free: 888-653-0160

evochargesales@phillipsandtemro.com

Evocharge.com