Product Datasheet

ZEFNET Movable Charger

The ZEFNET Movable Charger is the premiere 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 CCSI and CHAdeMo as the standard options. The available charging power is automatically distributed between the charging outputs.

There are two output voltage levels: 500 VDC and 800 VDC.



Power range

Up to $50 \, \text{kW}$

Number of outputs

1-2





- 7" touch screen display
- RFID reader (ISO 14443A) 2
- 3 Vehicle connectors and holders
- 4 Charging status indication LEDs
- 5 Removable wheels
- 6 Mounting pad









Movable Charger for easy use wherever needed

Plug & play, 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 **ZEFNET Software**



Product code guide:

T800•P40•UU•7•A•S•L•C0 ZEFNET_KP_T500_CC\$2_50 500V Movable Charger • 50 kW charging power • 2 x CCS1 vehicle connector • charging cable length 23 ft.

- nominal charging cable current 80 A standard user interface
- ETL certification

Item	Code	Description	
Product type	T500	ZEFNET Movable Charger 500 V	
	Т800	ZEFNET Movable Charger 800 V	
Charging power	50	50 kW at nominal voltage*	
Vehicle connector type	Chad	CHAdeMO	
	CCS	CCSI	
	CCS2	2 x CCS1	
	CCS-Chad	CCSI & CHAdeMO	
Charging cable length	5	16.4 ft. (Standard)	
	7	23 ft. (Optional)	
Nominal charging cable	Α	80 A (CCSI)	
current	В	125 A (CHAdeMO), 150 A (CCS1)	
Certification	L	ETL-approved product	

^{* 40} kW at input nominal voltage <440 VAC

General electrical specifications

Grid connection (AC)	3P+PE 100 A*
Grid supply connector	Not included. Customer installs preferred plug.
Supply cable length	16.4 ft.
Input nominal voltage	480 VAC
Input operating voltage	380480 VAC +6%/-10%
Input frequency	5060 Hz
Nominal input power	58 kVA (at nominal input voltage)
Power factor at full load	0.92
Efficiency at full load	94%
Idle power	20 VA
Overvoltage category	III
Rated conditional short-circuit current	25 kA
Network type	TN-S, TN-C, TN-C-S, TT

If 60 A is used, power is reduced accordingly

^{**}Comes standard with ZEF Energy branding on the front



Environmental specifications

Operating temperature	−22122 °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	< 60 dB at 3.3 ft. distance
Storage temperature	-40140 °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	ZEFNET Backend Software	

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 (500 V)	T800 (800 V)
Nominal output power at 480 VAC	50 kW (with 2 outputs: Dynamic 50 kW one output or 25 kW per output at 480 VAC and 400 VDC)	50 kW (with 2 outputs: Dynamic 50 kW one output or 25 kW per output at 480 VAC and 667 VDC)
Nominal output current	2 x 63 A, 1 x 125 A	2 x 37 A, 1 x 75 A
Output voltage range	150500 VDC	200920 VDC



Product codes

Product code	Charging outputs	Vehicle connector	Simul. charging with 2 outputs	Nominal charging cable current
T500				
T•U•5B•S•L	1	CCS1	N/A	150 A
T•UU•5B•S•L	2	2 x CCS1	Yes	2 x 150 A
T•D•5B•S•L	1	CHAdeMO	N/A	125 A
T•UD•5B•S•L	2	CCS1 & CHAdeMO	Yes	150 A & 125 A
Т800				
T•U•5A•S•L	1	CCS1	N/A	80 A
T•UU•5A•S•L	2	2 x CCS1	Yes	2 x 80 A
T•UD•5A•S•L	2	CCS1 & CHAdeMO	Yes	80 A & 125 A

 $\textbf{Note:} \ \textit{Versions with 23 ft. charging cables, change 5 to 7 in the product code, e.g. from $T500$-$P40$-CD-5-B-$S to $T500$-$P40$-CD-7-B-S in the product code, e.g. from $T500$-$P40$-CD-7-B-S in the product code of the prod$

Note: For CCS2 vehicle connector availability, contact ZEF Energy

Note: T800 with CHAdeMO, voltage and power limitations apply

Compliance to standards

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

Options

CCS2 charging cables	Available upon request	
Customized branding	Branding options, such as custom colors and stickers	
	Contact ZEF Energy for availability, pricing, and minimum order quantity	

Mechanical dimensions

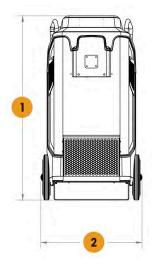
Size (W x H x D)

Ca. 25.1 x 47.9 x 26 in.

Weight

1 charging cable	Ca. 309–331 lb.
2 charging cables	Ca. 353–397 lb.











- 1 47.9 in.
- 2 26.4 in.
- 3 25.1 in.





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