



e-mobility DC ESS 60kW



Overall Features



Energy Storage System Support

The storage and charging system is used together with the power grid and charging piles to make the charging scenario more flexible



Multiple Standard Charging Port Combinations to Choose From

Ccs2, Chademo, Gb/t, And Ccs1 Can Be Combined And Customized.



Diverse Power Range

Multiple Power Options Are Available, Ranging From 60 Kw To 240 Kw With Customizability.



High Voltage Output

The Maximum Output Voltage Can Reach 1000v, Meeting The Needs Of The Vast Majority Of Electric Vehicles On The Market.



Intelligent Operation

It Can Not Only Operate On Our Platform But Also Connect With Various Ocpp Platforms.



Backend Monitoring

The Status Of The Charging Station Can Be Monitored In The Background.



Load Balancing

More Effective Connection To The Load System.

Designed for Future Smart Charging Network

- Timeless and classic design fits in urban space and architecture.
- Compatible with full smart functions under OCPP 1.6 J-SON
- Authorization for use on a mobile application or a cloud platform to monitor the charger operation remotely
- Connecting to the network by 4G,WIFI and Ethernet
- Independent Access hole, wiring entrance and rail-mounted components for most effective installation and maintenance.
- Protecting the life of car battery with the most stable charging process.

Highest Safety

- SPCC Carbon steel housing material,Have good heat dissipation. The structural strength is high, and the outdoor installation is not easy to be damaged
- The housing is made from materials specially developed for top heat dissipation and with flame retardant coating.
- Completely meets all requirements of the CE applicable standards.
- AC + DC faults detection
- Real-time monitoring for heat and all instabilities during charging process

Efficient Energy Storage System Used in Combination

- Energy storage system can improve the overall charging power.and thus mitigate the need for large investments to upgrade the distribution grid.
- During peak hours, cars can be charged from battery storage.The battery can then be re-charged during off-peak hours. This mean pay lower fees during peak hours and save costs.
- The air-conditioning system, fire protection system and battery management system make the whole charging system safer and more efficient.

Product Configuration

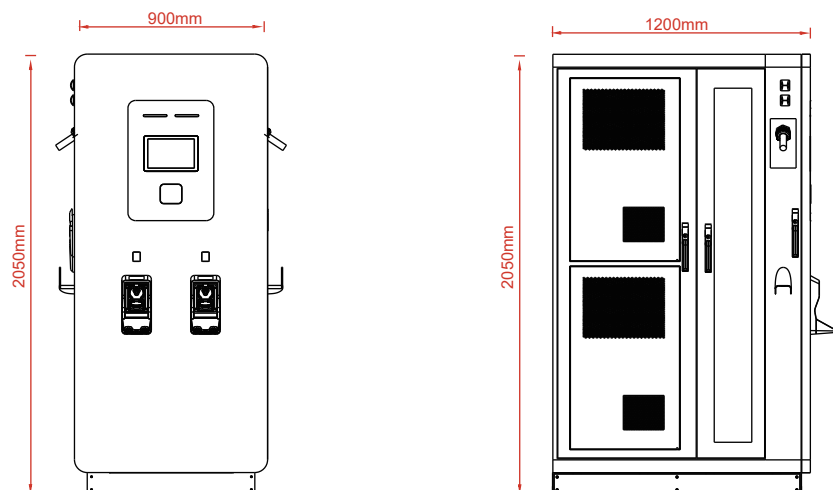
Product Codes	Vehicle Connector	MAX.Charging Current	MAX.DC Charging Power
TS-EDB60AA	2 × CCS2	2 × 150A	60kW
TS-EDB60AB	CCS2 & CHAdeMO		
TS-EDB60BB	2 × CHAdeMO		
TS-EDB60AC	CCS2 & GB/T		
TS-EDB60AA/AC43	2 × CCS2 & AC		60+22kW & 60+43kW
TS-EDB60AB/AC43	CCS2 & CHAdeMO & AC		
TS-EDB60BB/AC43	2 × CHAdeMO & AC		
TS-EDB60AC/AC43	CCS2 & GB/T & AC		

Note: Other types of charging stations, such as CCS1, may also be selected and customized according to specific needs.

Options

Network Gateway	4G
Payment Method	POS Machine
Cable Management	Optional
Advertising Screen	43" inch & 32" inch
Customized Branding	Branding options, such as custom colors and stickers Contact Teison for availability, pricing, and minimum order quantity

Product Size and Package



Product Code	Package Size(mm)	Package Weight(KG)
TS-EDB60	1100*1400*2250	1340

Parameter Instructions

Specification		
Model	TS-EDB60	
Electrical Properties		
AC Input	Input Rating	260V~485VAC
	AC Input Connection	3P+N+PE
	Rate Input Current	3Φ92A
	Frequency	50/60Hz
	Power Factor	≥0.98
	Efficiency	≥95%
DC Output	Output Voltage Range	300V~1000V
	Max.Output Current(system)	200A
	Max.Output Current(connector)	150A
	Max.Output Power	60kW
	Voltage Accuracy	±0.5%
	Current Accuracy	±1%
Energy-Storage System	Battery Capacity	64.5kWh
	Usable Energy(SAT)	61.3kWh (95%DOD)
	Battery Nominal Voltage	614.4V
	Battery Material	LiFePO4
	Max Recharge Power	30Kw
	Max Discharge Power	30Kw
	Battery Recharge Current	≤0.5C (50A)
	Battery Discharge Current	≤0.5C (50A)
	Battery Cycle Life(25°C)	≥6000 (80% DOD)
Product Specification		
Dimension	0.9*1.2*2.05m (W*D*H)	
Material	Galvanized steel sheet	
Color	White Weather-resistant coating	
User Interface & Control		
Display	10.1" Touch Screen	
Screen Material	LCD	
Meter	DC Meter (MID PTB optional)	
Push Buttons	Operation Buttons/Emergency Buttons/Fire Button	
User Authentication	User Authentication RFID, OCPP, QR Code, Password, Application	
Support Language	English (Other languages available upon request)	
Communication		
Communication Protocol	OCPP 1.6J	
External	Ethernet, WIFI	
Internal	CAN, RS485, RS232	
Environmental		
Operating Temperature	-25°C -50°C (over 45°C derating)	
Humidity	<95% Relative Humidity, Non-condensing	
EMC Emission	Type B	
Altitude	≤2000m (6000 feet)	

Mechanical

Ingress Protection	IP55
Enclosure Protection	IK10
Fire System	Composite Detector + Aerosol Extinguishing Agent
Cooling System	Air Cooling/Air Conditioning
Installation Method	Floor Mounted

Safety

Input Protection	Under Voltage, Over Voltage, Over Current, Over Temperature,leakage
Output Protection	Short Circuit, Over Temperature, Residual Current, Over Current, Leakage
Emergency Protection	Surge Protection, Ground Fault, High Precision Output Insulation Monitoring

Regulation

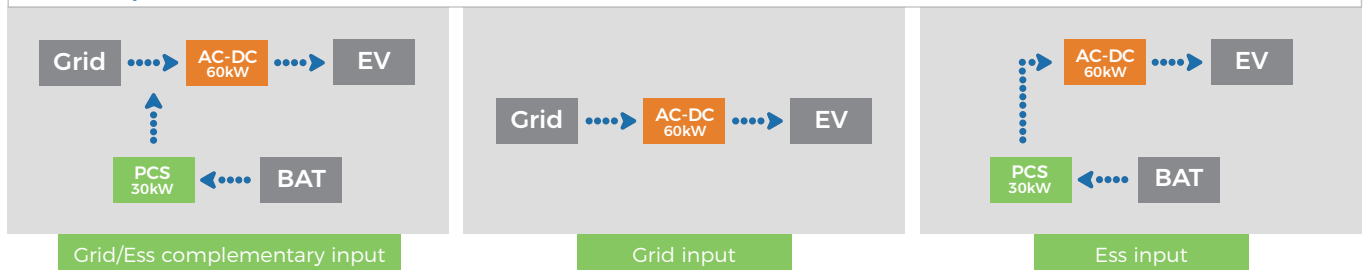
Certificate	CE CB MSDS UN38.3
Standard	IEC61851-1, IEC61851-23, IEC61851-21-2, IEC61851-24, IEC61000-6-2, IEC61000-6-4, IEC 62619, IEC61000-6-1/3

Optional Config

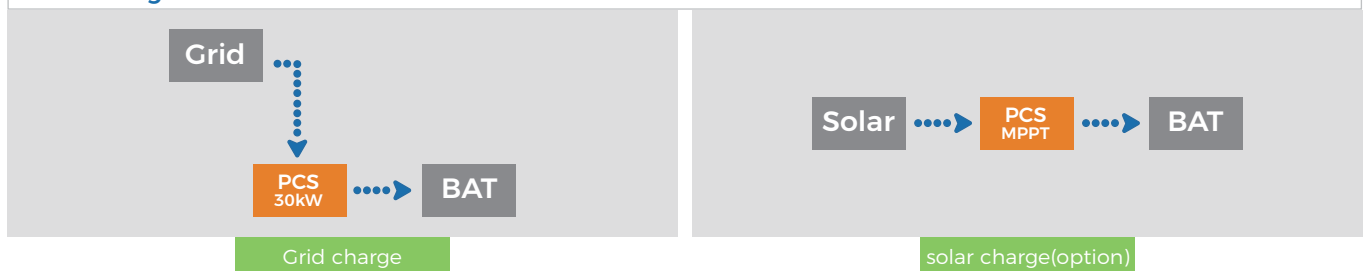
Network Gateway	4G
Payment Method	POS Machine
Cable Management	Optional
Advertising Screen	Optional
Charging Port	Optional(Default CCS1 CCS2)
Solar Port	Reserved

Teison DC ESS Series Framework Description

Three Input Mode



Two Charge Mode



RFID Prepaid Charging Mode

Click the start button on the display screen, and the screen will show a swipe signal. Once this interface appears, place the card at the card reader.



Scan the Code on the App to Start Charging

Click on User Preference and then select QR Authentication.

Open the My Teison app and enable the scanning function.



Unverified Startup Charging

Click on User Preference and then select No Authentication.

Click the start button on the display screen and wait for the device to connect to the vehicle.



Note: It also supports POS card charging. For more detailed instructions, please refer to the manual.

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