

DS-TMP201-D2(HD)(180kW)(EU) Easy Charge DC Series



The DS-TMP201-D2 series of EV Charging Station is a product designed to meet the IEC62196(CCS2) standard charging interfaces and provide safe and reliable charging services. This series of EV Charging Station provides direct current (DC) power to the vehicle's battery using charging Mode 4、Case C.

This series of EV Charging Station can meet the high reliability, high performance, and energy-saving requirements. It also offers a user-friendly interface for easy operation. It provides various communication interfaces, such as Ethernet, for real-time communication with the operation platform. It can receive instructions from the control center to limit the output power of the on-board charger. The charging station can monitor the connection status in real-time and dynamically adjust the charging parameters based on the data feedback from the vehicle's Battery Management System (BMS). If any abnormal connection is detected, the charging process will be immediately terminated to ensure the safety of person and vehicles. This series of EV Charging Station is suitable for installation in various locations, including along high ways, public parking lots, parking lots along tourist routes, and commercial squares. It provides fast charging services for qualified electric vehicles on a daily basis.

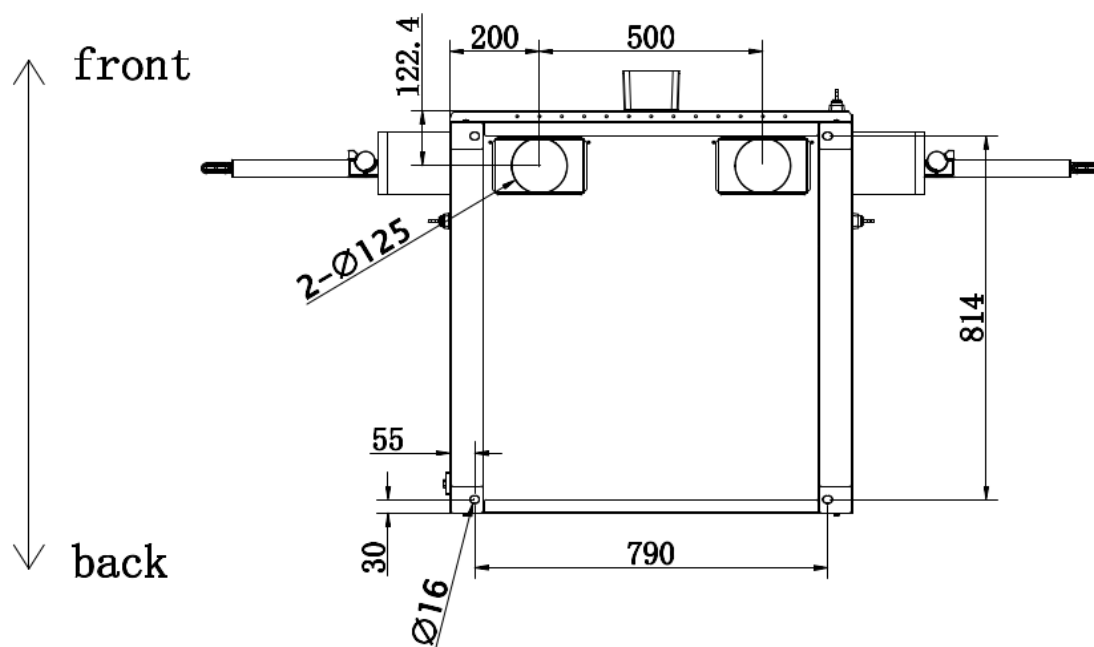
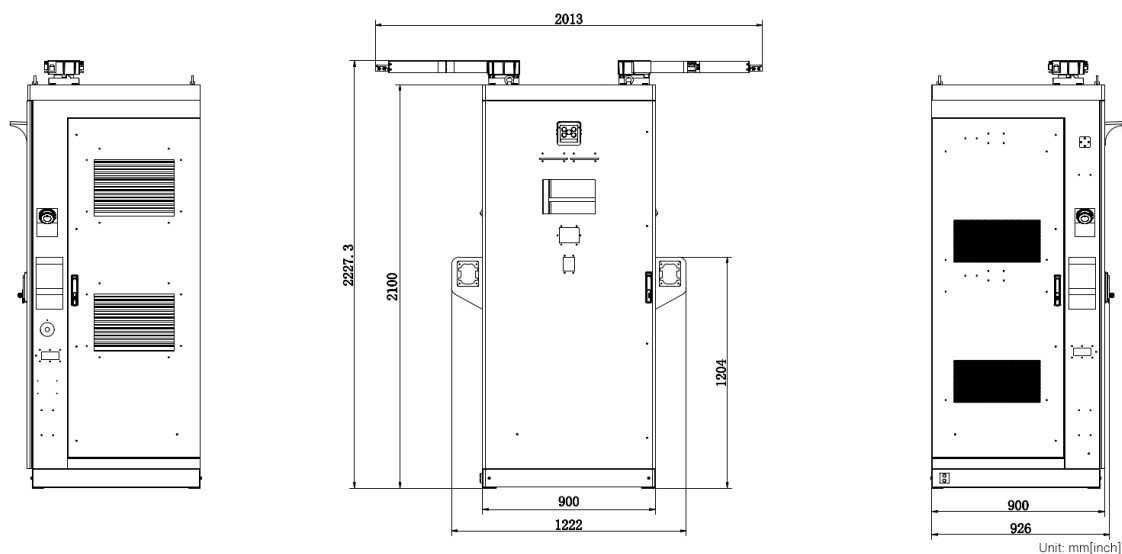
- Adopts modular design, consisting of the following closely integrated functional units:
- Human-Machine Interaction Unit: Equipped with status indicators and a 10.1-inch color touchscreen, it displays critical information such as charging status, QR code, charging fee rules, order details, and status information. Supports system parameter configuration.
- Card Reader Unit: Supports user authentication and authorization for charging start/stop.
- AC Distribution Unit: The three-phase AC input power distribution system, primarily composed of molded-case circuit breakers.
- Charging Module Unit: Converts three-phase AC power into DC power.
- DC Distribution Unit: Manages DC charging distribution through DC contactors.
- Charging Control Unit: Dynamically allocates power output based on vehicle BMS requirements while coordinating AC/DC distribution and charging modules.
- Metering and Communication Unit: Monitors the charging process in real-time, records and uploads information including voltage/current data, as well as metering and billing information to the platform.
- Charging Connector and Cable: Equipped with CCS2 charging connectors compliant with IEC 62196.
- Dual-charger Simultaneous Charging: Supports two charging connector operating concurrently with independent metering for voltage, current, battery SOC (State of Charge), and energy consumption.
- Charging Platform: Supports accessing with OCPP Charging Station Management system(CSMS).

▪ Specification

Input Electrical Property	
Input Voltage	3-phase: 400 VAC $\pm$ 10%
Input Frequency	45-65Hz
Input Cable	3P + N + PE (L1, L2, L3, N, PE)
Recommended Input Cable Specifications	3 $\times$ 185 mm ² + 2 $\times$ 95 mm ² (dependent on cable length)
Rated Input Current	278A
Power Factor	$\geq$ 0.99 (at full load)
Total Harmonic Distortion	$\leq$ 5 %
Output Electrical Property	
Output Voltage Range	50 VDC to 1000 VDC
Output Current Range	0 A to 250 A
Rated Output Power	180kW
Max. Output Current	500 A
Constant Power Voltage Range	50 VDC to 1000 VDC
Max. Output Current for Single Charger	250 A
Max. Output Current for Dual-Charger Charging	250 A $\times$ 2 channels
Stabilized Current Precision	$\leq \pm 1$ %
Stabilized Voltage Precision	$\leq \pm 0.5$ %
Efficiency	$\geq$ 95% (at full load)
Human-Machine Interaction	
Signal Indicator	Green (steady): Standby Green (flashing): Gun inserted, ready to charge Blue (flashing): Charging initiation Red (steady): Charging in progress Yellow (flashing): Fault
Emergency Stop Button	Located in a visible position to cut off the output circuit in emergency situations
Display	10.1-inch color touchscreen
Card Reader	ISO14443, Type A, Mifarel
Protection Property	
Input Overvoltage Protection	Supported
Input Undervoltage Protection	Supported
Input Phase Loss Protection	Supported
Output Overcurrent Protection	Supported
Output Overvoltage Protection	Supported
Output Short Circuit Protection	Supported
Output Anti-Siphon Protection	Supported
Leakage Protection	Supported
Other Protections	Over-temperature, overload, grounding, emergency stop, lightning protection, etc.
Environmental Property	
Protection Level	IP55/IK10(Screen for IK08)
Operating Environment	No conductive dust, no corrosive gases, no explosive gases, no strong vibrations

Suggested Operating Altitude	≤2000m
Storage Temperature	-40 °C to +75 °C (-40°F to 167°F)
Operating Temperature	-25 °C to +50 °C (-13°F to 122 °F), ≤ 95% RH
Cooling Mode	Intelligent forced air cooling
Insulation Resistance	≥10MΩ
Others	
Charging Interface	IEC62196(CCS2)
Charging Cable Length	5 m (including cable inside the charger station)
Communication	Ethernet
Installation Mode	Floor-mounted
Startup Mode	Card swipe, QR code scanning
Operating Mode	Offline charging, online billing (OCPP Charging Platform)
Executive Standard	IEC 61851-1 ; IEC 61851-23
Number of Output Charger Connectors	2
Approval	
Other	ENIEC 61851-21-2:2021 ENIEC 61851-1:2019 EN61851-23:2014 EN61851-24:2014 EN62479:2010 EN300 330 V2.1.1 EN301 489-1 V2.2.3 EN301 489-3 V2.3.2 ENIEC 63000:2018
General	
Dimensions	2013 mm × 926 mm × 2227.3 mm (79.3 x 36.5 x 87.7 inch) (including swing arm: W × D × H)
Dimensions (with Package)	Main unit: 1440mm x 1100mm x 2256 mm (56.7 x 43.3 x 88.8 inch) (W × D × H) DC module: 6 * [430mm x 550mm x 153 mm (16.9 x 21.7 x 6.0 inch) (W × D × H)]
Weight	Approx. 518 kg (1139.6 lb)
Weight (with Package)	Main unit: 398.4 kg (878.3 lb) DC module: 6 * 20kg (44.1 lb)

▪ Dimension



▪ Accessory

▪ Optional

DS-TMP003-A



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