

DS-TMP201-D2(H)(120kW)(EU) All-in-one DC Charging Station



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: Verifies user identity and authorizes charging start/stop.
- AC Distribution Unit: The three-phase AC input power distribution system, primarily composed of molded-case circuit breakers and AC contactors.
- 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.
- Charger and Cable Unit: Supports charging for vehicles that meet European standards IEC62196(CCS2).
- Dual-charger Simultaneous Charging: Supports two chargers operating concurrently with independent metering for voltage, current, battery SOC (State of Charge), and energy consumption.

- Charging operation platform: Supports accessing with OCPP charging operation platform.

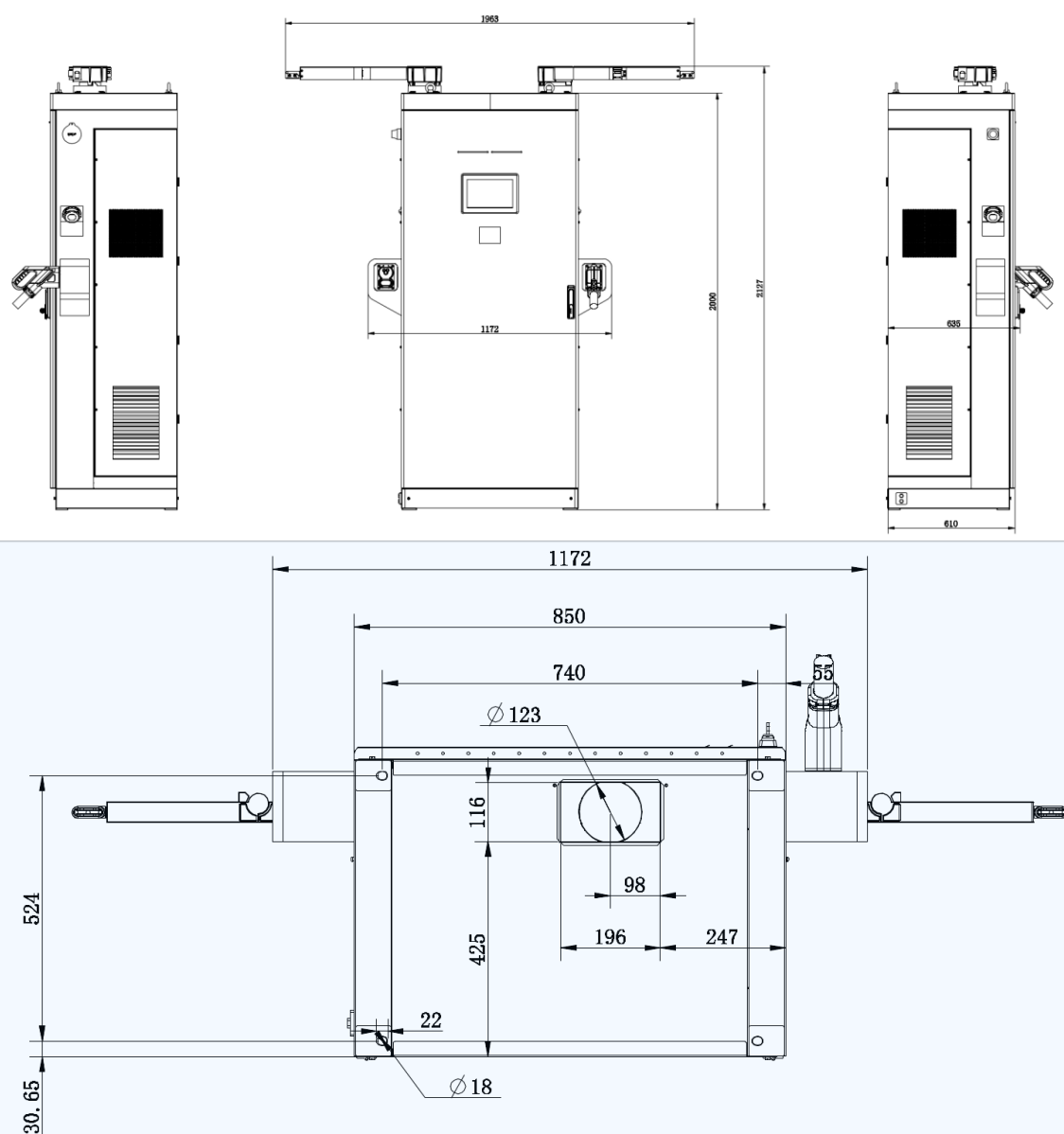
▪ Specification

Model		DS-TMP201-D2(H)(120kW)(EU)
Input Electrical Property	Input Voltage	400 VAC $\pm$ 10%
	Input Frequency	50/60Hz
	Input Cable	3P + N + PE (L1, L2, L3, N, PE)
	Recommended Input Cable Specifications	3 $\times$ 95 mm ² + 2 $\times$ 50 mm ² (dependent on cable length)
	Rated Input Current	185A
	Power Factor	$\geq$ 0.99 (at full load)
	Total Harmonic Distortion	$\leq$ 5 %
Output Electrical Property	Output Voltage Range	200 VDC to 1000 VDC
	Output Current Range	10 A to 250 A
	Rated Output Power	120kW
	Max. Output Current	400 A
	Number of Output Chargers	2
	Constant Power Voltage Range	300 VDC to 1000 VDC
	Max. Output Current for Single Charger	250 A
	Max. Output Current for Dual-Charger Charging	200 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 Red (flashing): Charging initiation

		Red (steady): Charging in progress Yellow (steady): Fault
	Emergency Stop Button	Located in a visible position to cut off the output circuit in emergency situations
	User Interface	10.1-inch color touchscreen
	Card Reader	ISO14443, Type A, Mifare1
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(IK08 for LCD screen)
	Operating Environment	No conductive dust, no corrosive gases, no explosive gases, no strong vibrations
	Altitude	≤2000m
	Storage Temperature	-40°C to +75°C
	Operating Temperature	-25°C to +50°C
	Cooling Mode	Intelligent forced air cooling
	Insulation Resistance	≥10MΩ
Others	Charging Interface	IEC62196(CCS2)
	Charging	5 m (including cable inside the charger station)

	Cable Length	
	Communication Interface	Ethernet
	Installation Mode	Floor-mounted
	Startup Mode	Card swipe, QR code scanning
	Operating Mode	Offline charging, online billing (OCPP operation platform)
	Executive Standard	IEC 61851-1; IEC 61851-23
General	Dimension	1963 mm × 610 mm × 2127 mm (including swingarm: W × D × H)
	Weight	Approx. 363 kg (800.3 lb)
General	Dimensions (with Package)	1350mm x 780 mm x 2306 mm (W × D × H)

Dimension



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