D-Volt Pro

Intelligent EV Charger



- 4.3-inch LCD display.
- 3 charging methods: Free vending (plug&play), RFID control, and app control.
- Supports OCPP 1.6J and ModBus TCP.
- Working temperature: –30 °C to +50 °C (– 22 °F to +122 °F).
- Integral 30 mA Type A and DC 6mA RCD function protection, and supports PEN protection.
- Built-in MID-certified Meter.
- Offers multiple safety protections.
- IP55 and IK10 rated.
- 3 year warranty.

System Overview

D-Volt Pro is a revolutionary EV charging solution for commercial use. It is designed to deliver robust performance and match to our specialized software management system D-Volt Desktop and D-Volt APP for ensuring charging efficiency.

Functions

Multiple Start Methods
Charging can be easily initiated through App, RFID or Plug and Play.

Current Adjustment
The current can be adjusted from 6 A to 32 A. The EV Charger also has protection against overloads and safely uses home electricity, while providing fast charging at maximum power.

Scheduled Charging
Charging can be scheduled and energy levels customized. By selecting the most convenient charging periods, you can reduce electricity costs and ease the load on the power grid. Additionally, you can tailor the amount of energy for charging your vehicle based on the actual demands of its battery. This approach minimizes float charging and helps protect the battery.

Intelligent Operation and Maintenance
Supports error alarms, OTA update, DSO control, remote control and restart.

Protection Capabilities
Comes with protection against overvoltage, undervoltage, overcurrent, short circuits, lightning surges, electric surges, leakage, overtemperature, metering failure, CP disconnection, and vehicle PE disconnection. It can also detect relay sticking and LN reverse connection, and offers grounding protection, PEN protection, and data security. The EV Charger is also dustproof and waterproof so that you can feel secure and comfortable while using it.

Scene

Suitable for open parking lots such as those in enterprises, public institutions, stores, shopping malls, hospitals, and tourist attractions.

Technical Specification

Basic

Rated Power	7 kW	11 kW	22 kW
Power Supply	AC230 V±15% 50/60 Hz 1-Phase	AC400 V±15% 50/60 Hz 3-Phase	AC400 V±15% 50/60 Hz 3-Phase
Input Cable Wiring Method	L1/N/PE	L1/L2/L3/N/PE	L1/L2/L3/N/PE
Operating Current	32 A max	3 * 16 A max	3 * 32 A max
Socket Outlet or Connector Type	Socket/5 m (16.40 ft) Cable, Type 2		
Display Screen	4.3 inch LCD		
Charging Protocol	Mode 3 (EN/IEC 61851)		
Protection	IP66 (Cable), IP55 (Socket)		
Anti-collision Grade	IK10		
Operating Temperature	–30 °C to +50 °C (– 22 °F to +122 °F)		
Storage Temperature	–40 °C to +70 °C (–40 °F to +158 °F)		

Port

Charging Port	Type 2 (Socket, IEC 62196 Type2 EU)
Ethernet Port	1 × RJ-45 port
Others	RS485*2/CAN*2/USB

Function

Charging Control Mode	Plug & Play/RFID/APP
Communication Protocol	OCPP 1.6J and ModBus TCP
Upgrade Method	USB upgrade and remote upgrade (OCPP 1.6J)
MID	Built-in MID-certified Meter.
Leakage Protection	30 mA Type A RCD + 6 mA DC
Security Protection	Surge protection, over temperature protection, over voltage protection, under voltage protection, over current protection, grounding protection, electrical leakage protection, PEN (for British regions), and Integral 30 mA Type A RCD (EN 61008) + 6 mA DC protection (EN 62955)

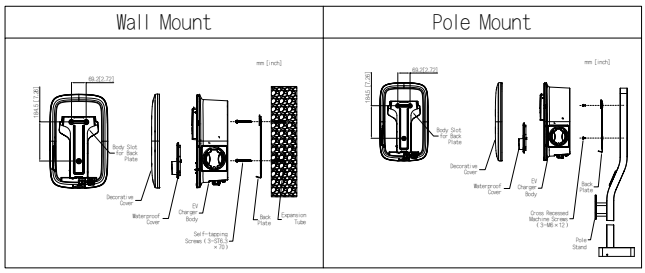
General

Operating Humidity	≤95% (RH), non-condensing
Product Dimensions	443.0 mm × 273.0 mm × 171.5 mm (17.44" × 10.75" × 6.75") (H × W × D)
Packaging Dimensions	cable: 606.0 mm × 423.0 mm × 484.0 mm (23.86" × 16.65" × 19.06") (L × W × H) socket: 606.0 mm × 423.0 mm × 409.0 mm (23.86" × 16.65" × 16.10") (L × W × H)
Net Weight	6.0 kg ± 0.5 kg (13.23 lb ± 1.10 lb)
Package Weight	12.0 kg ± 1.0 kg (26.46 lb ± 2.20 lb)
Installation Environment	Indoor or outdoor in well-ventilated places and free of oil stains, chemicals and inflammable and explosive substances.
Wire	Wire cross-section: 3 × 6 mm2 (9 AWG) 1-Phase 5 × 6 mm2 (9 AWG) 3-Phase
Installation	Wall mount and vertical pole mount
Certifications	CE/CB EN IEC61851-1, EN IEC61851-21-2, EN300328, EISI EN300330, EN301489-1/-17/-3/-52, EN62311, EN50364, ETSI EN 301511, ETSI EN301908-1/-2/-13, IEC62955, 2011/65/EU, 2015/863/EU

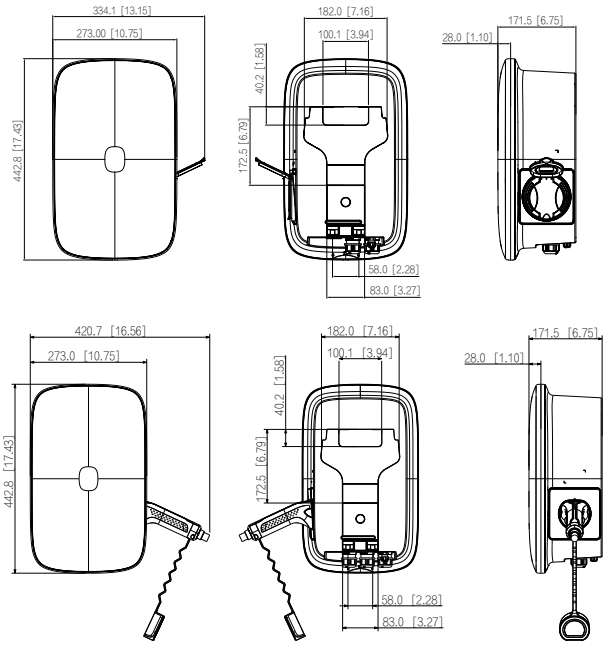
Ordering Information

Product Name	Series Title	Model
Intelligent EV Charger	D-Volt Pro	DHI-ICS-A070E-B1D
		DHI-ICS-A070E-B2D
		DHI-ICS-A070E-B1D-Z
		DHI-ICS-A070E-B2D-Z
		DHI-ICS-A110E-B1D
		DHI-ICS-A110E-B2D
		DHI-ICS-A110E-B1D-Z
		DHI-ICS-A110E-B2D-Z
		DHI-ICS-A220E-B1D
		DHI-ICS-A220E-B2D
		DHI-ICS-A220E-B1D-Z
		DHI-ICS-A220E-B2D-Z
Accessories (Optional)	EV Charger Cable	7 kW
		11 kW
		22 kW
	CT sensor	1-Phase
		3-Phase
	RFID	Round card
		Square card
	Bracket	DHI-ICS-MBE-1B
		DHI-ICS-MBE-1C

Installation



Dimensions (mm[inch])



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