

D-Volt Air

Intelligent EV Charger



- 3 charging methods: Free vending (plug&play), RFID control, and app control.
- Supports OCPP 1.6J and ModBus TCP.
- Working temperature: -30°C to $+50^{\circ}\text{C}$ (-22°F to $+122^{\circ}\text{F}$).
- Integral 30 mA Type A and DC 6 mA RCD function protection, and supports PEN protection.
- Supports dynamic load balancing and solar charging.
- Offers multiple safety protections.
- 3 year warranty.

System Overview

D-Volt Air is a high-efficiency electrical vehicle power supply. It features fast charging, robust safety mechanisms, and user-friendly interfaces, ensuring reliable and convenient EV charging experience.

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 installation in homes to charge new energy vehicles.

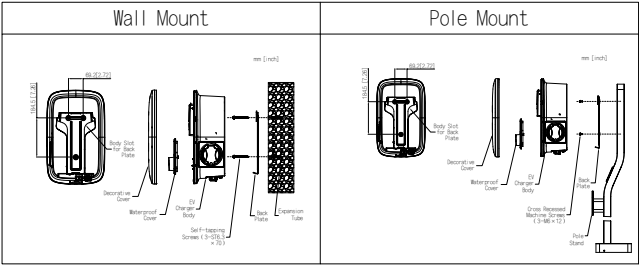
D-Volt Air

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		
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)		
DLB	Supports Dynamic Load Balancing and solar charging.		
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.		
Installation	Wall mount and vertical pole mount		
Wire	Wire cross-section: 3 × 6 mm2 (9 AWG) 1-Phase 5 × 6 mm2 (9 AWG) 3-Phase		

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	
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Ordering Information		
Product Name	Series Title	Model
Intelligent EV Charger	D-Volt Air	DHI-ICS-A070E-H1D
		DHI-ICS-A070E-H2D
		DHI-ICS-A070E-H1D-Z
		DHI-ICS-A070E-H2D-Z
		DHI-ICS-A110E-H1D
		DHI-ICS-A110E-H2D
		DHI-ICS-A110E-H1D-Z
		DHI-ICS-A110E-H2D-Z
		DHI-ICS-A220E-H1D
		DHI-ICS-A220E-H2D
		DHI-ICS-A220E-H1D-Z
		DHI-ICS-A220E-H2D-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])

