

V2G Bidirectional Charging System

V2G/22kW Smart AC Charger

Product Features

PLC Communication: Transmits data/control signals via power lines (ISO 15118-2/ISO 15118-20 compliant).

22kW bidirectional AC charging system, Supports V2G, V2H, V2B, V2L modes for flexible energy interaction between EV-grid, EV-home, EV-storage, and EV-load.

Integrates over-voltage/under-voltage/over-current, ground fault, over-temperature, and dual-side isolation protection; V2H works without extra accessories.

Suitable for home solar+EV, fleets, VPP, emergency power, enhancing energy utilization and grid flexibility.

Comes with AC22 smart charger (multiple payment/charging modes); offers end-to-end energy technology solutions.

Key Features

• Bidirectional Power Flow

Supports V2G/V2H/V2B/V2L modes for flexible energy interaction between EV-grid, home, storage, and load.

• Remote Control & Monitoring

Manage scheduling, charging history, and settings through the T-Power App.

• Dynamic Power Management

Balances energy between solar generation, grid supply, and home battery storage.

• Multiple Connectivity Options

Ethernet / Wi-Fi / 4G / Bluetooth supported.

• 4.3" LCD Display + LED Status Indicator.

• Human Presence Detection

The display automatically turns on/off when a person is within 5 meters.



Main Performance And Characteristics

Parameters	Model	T-POWER V2G-AC22
Input	Voltage	230/400AC, 3-Phase
	Max Current	32A
	Power Rating	22 KW Bidirectional AC
	Grid Frequency	50Hz/60Hz
Output	Voltage	230/400AC, 3-Phase
	Max Current	32A
	Rated Power	22kW Three-Phase AC Charging
	Power Conversion	AC $\leftrightarrow$ DC Bidirectional Converter
User Interface	Charge Plug	Type-2
	Cable Length	5 Meters (Include Connector)
	Enclosure	Plastic
	LED Indicator	Yes
	LCD Display	4.3" Color LCD
	RFID Card Reader	Yes
	Start Method	Scan Code/VIN Code/Swipe Card/APP
	Payment	App / RFID / QR / Cloud Payment Support
Communication	Communication	Ethernet /Wi-Fi / 4G/OCpp Cloud
	Communication Type	ISO 15118-2/ISO 15118-20(PLC)
	Protocol	OCPP 1.6/OCPP 2.0.1
	Rated Current	RS485, Modbus, CAN
	Alarm Mode	Audible And Visual Alarm
	Certifications	CE/RCM/IEC/AS/NZS(Configurable To Region)
	Baud Rate	125kpS, 250kps, 500kps
Safety	Emergency Stop	Yes
	Charging Mode	Rectification, Grid-Connected Inversion, Off-Grid Inversion
	Protection Grade	IP65
	Electrical Protection	Over-Voltage, Under-Voltage, Over-Current Protection, Ground Fault & Insulation Monitoring, Over-Temperature Derating And Protection
Working Environment	Operating Modes	V2G/V2H/V2L/V2B
	Cooling	Intelligent Air Cooling
	Operating Temperature	-20°C To +55°C
	Housing Material	Metal Shell
	Installation	Wall Mount/Pole Mount
	Weight	< 30kg
Package	Product Size	670*560*220mm (W*D*H)
	Packaging Material	Carton Box
Others	Warranty	2 Years