EP865

EV Battery Pack Charge & Discharge Equipment

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The EP865 is a device designed for power battery pack maintenance. It supports fast charging and discharging of the entire vehicle or battery pack, has comprehensive safety protection, and is suitable for whole-pack maintenance operations.

Supports 4500+ BMS protocols, covering mainstream models such as Tesla, Toyota, and Volkswagen

Support B2B/B2V multi-working modes

Supports constant current charging and discharging, capacity detection and SOC/SOH evaluation

Supports national standard GB/T 27930 and European standard ISO 15118 fast charging protocols

Features

1. Energy-saving charging and discharging: Supports B2B (battery to battery) and B2V (battery to vehicle) working modes, and energy is recovered without waste;
2. Supports a wide range of BMS protocols: Built-in battery pack diagnostic software and a library of over 4,500 BMS protocols, covering mainstream models such as Tesla, Toyota, and Volkswagen;
3. Battery health visualization: Supports constant current charging and discharging, capacity detection, and SOC/SOH evaluation. It can also read core parameters such as SOC, voltage, current, temperature, and cell battery status to achieve an intuitive presentation of battery health status;
4. Fast charging protocol interoperability: Supports the national standard GB/T 27930 and the European standard ISO 15118 fast charging protocol, is compatible with different standard systems, and meets global market needs;
5. Flexible fast charging gun direct connection: supports direct charging of the entire vehicle through a fast charging gun, facilitating flexible application in maintenance, testing and emergency scenarios;
6. Comprehensive safety protection: Built-in multiple software and hardware protection mechanisms, with protection against reverse polarity, high temperature warning, short circuit, leakage, phase loss, overvoltage, undervoltage, overcurrent, overtemperature, tilt, etc., effectively ensuring the safety of the human-machine system.

Functions

1. Wide voltage and current range: Supports a voltage range of 150V~1000V and a maximum current output of 100A, covering mainstream power battery test scenarios.
2. Whole pack charge and discharge test: Integrates charging, discharging, and capacity testing to cover a variety of battery pack application scenarios.
3. Energy-saving charging and discharging: Supports B2B (battery to battery) and B2V (battery to vehicle) working modes, and energy is recovered without waste.
4. Direct connection with a fast charging gun: Supports charging the entire vehicle through a national standard fast charging gun, suitable for maintenance, inspection and emergency scenarios.
5. BMS data acquisition: Supports reading parameters such as SOC, voltage, current, temperature, and cell status for cell protection and battery health assessment.
6. Supports a wide range of BMS protocols: Built-in battery pack diagnostic software and a library of over 4,500 BMS protocols, covering mainstream models such as Tesla, Toyota, and Volkswagen.
7. Multiple safety protection mechanisms: With comprehensive software and hardware protection design, it supports reverse polarity protection, high temperature warning protection, short circuit protection, leakage protection, phase loss protection, overvoltage protection, undervoltage protection, overcurrent protection, overtemperature protection, and tilt protection, effectively ensuring the safety of the human-machine system during operation.
8. Graphical data display: Real-time display of voltage, current, curves and cell status for intuitive analysis.
9. Full-process data recording and upgrade support: Supports full-process recording, data export and OTA remote upgrades to facilitate data traceability and continuous system optimization.

Parameters

Charging voltage	150V ~ 1000V	Charge and discharge power	30kW MAX
Discharge voltage	200V ~ 865V	Input	AC 220V/380V 50/60 Hz
Voltage measurement accuracy	±0.5% F.S	Display mode	10-inch touch screen 1280×800
Current measurement accuracy	±1% F.S	Storage	32G
Charge and discharge current	100A MAX	Data communications	CAN / RS485 / Wi-Fi / Bluetooth
Security protection	Reverse polarity protection, high temperature warning protection, short circuit protection, leakage protection, phase loss protection, overvoltage protection, undervoltage protection, overcurrent protection, overtemperature protection, tilt protection		

Direct-Connect Fast Charge Gun

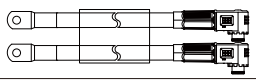
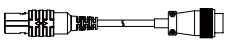
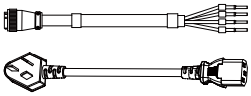
Supports GB/T 27930 and ISO 15118 protocols, compatible with mainstreamvehicle models for fast and safe charging

Compatible with BCI communication boxes, enabling real-time collection of BMS data to enhance cell protection and status assessment

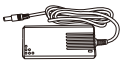
B2V Energy-Saving Charge and Discharge

The battery pack directly supplies power to the entire vehicle, enabling flexible energy replenishment while reusing discharged energy

EP865 Accessories

High-voltage output cable 	BMS Communication Cable 	Fast Charging Gun (Standard Configuration Only) 
Voltage Acquisition Cable 	Jumper Cable (Jump-5) 	GB/T to CCS2 Adapter (Standard Configuration Only) 
Power cord (380V/220V) 	WiFi / BT USB Adaptor 	

BCI Battery Communication Toolkit

Adapter Cables (9 types) 				
BCI Communication Box 	HFT Diagnostic Connector Test Main Line 	Power Adapter (12V5A) 	Power cord 	Jumper Cable (Jump-8) 

B2B Energy Transfer Charge and Discharge

EP865

One Device, Multiple Functions, Full-Scene Coverage Supports vehicle charging, B2V, B2B, and battery pack testing, energy-efficient and highly effective

Transferring power from one battery pack to anotherprevents energy waste and supports secondary utilization

Full-Pack Charge/Discharge

Efficiently performs full-pack charge/discharge cycles,suitable for various scenarios including pack factory testing and repair shops

BCI Battery Communication Toolkit

BYD E5 TL-100R	XPeng P7 TL-106R	ROEWE EI6 TL-113Y	BYD QIN PRO EV TL-126R
BYD TANG DM TL-101R	XPeng G3 TL-107R	ROEWE EI5 TL-114Y	BYD D1 TL-127R
BYD HAN EV TL-102R	Geely Emgrand EV450 TL-108Y	Hyundai Elantra TL-115B	GAC GE3 TL-130R
BAIC EU TL-103B	NETA V TL-109Y	BAIC EU5 R500 TL-116B	GAC AION S Plus TL-143R
WM EX5 400 TL-104Y	DongFeng Aeolus E70 TL-110B	CHERY eQ1 TL-119Y	Tesla Model 3 26+26 TL-152B
Wuling Hongguang Mini TL-105R	DongFeng Venucia D60 TL-112B	Tesla Model 3 TL-124B	Tesla Model S & X TL-153B