

ENERGY STORAGE SYSTEM -CHE SERIES

FOR ON-GRID



CHE Series Commercial Energy Storage System

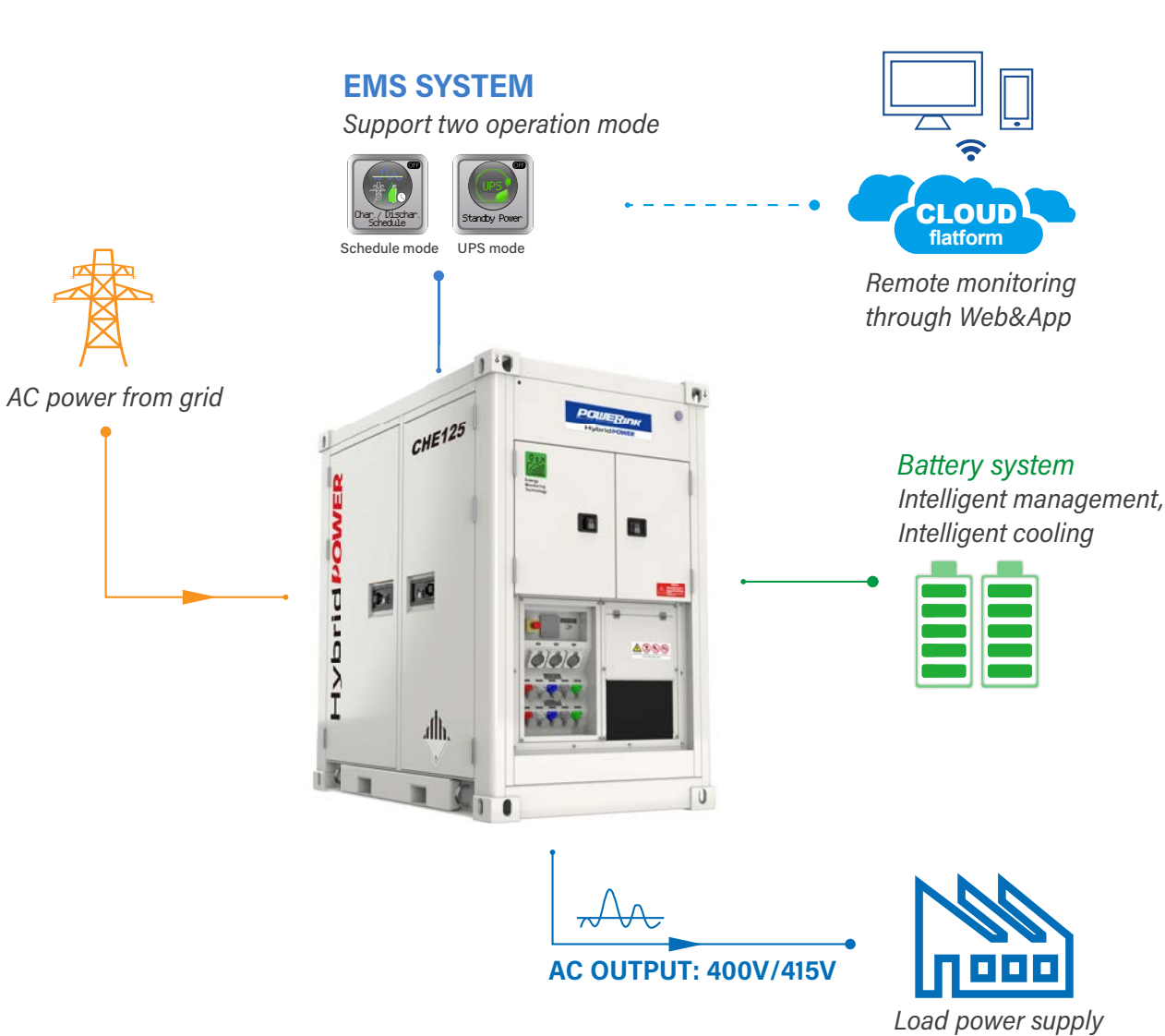
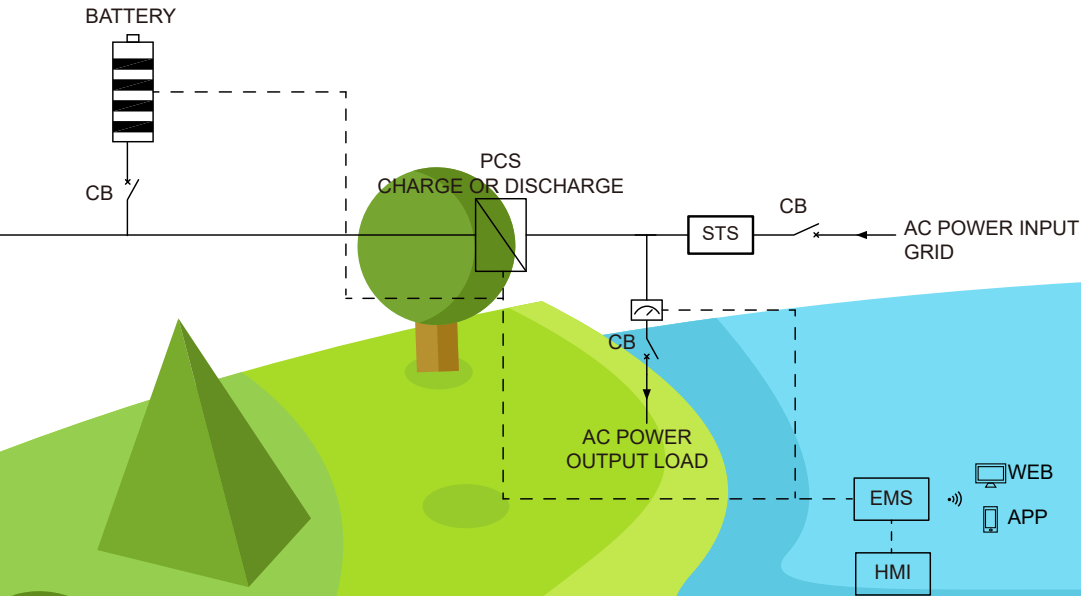
- Independent power station
- Battery energy storage
- Pulg and charging
- Power grid input interface
- Pulg and play
- Diesel power input interface
- Large capacity energy
- Solar/wind power generation

Energy Storage System

CHE Series Commercial Energy Storage System

CHE series commercial energy storage system is a battery energy storage system for leasing, construction, port, mining, events, emergency, ship power supply, and on-grid applicaiton scenarios, with highly integrated, ultra-high energy density, flexible configuration and other characteristics, can provide users with independent power or energy-saving and environmentally friendly efficient energy products.

SEPCIFICATION	CHE125	CHE125	CHE125
OUTPUT POWER (kWe)	125	125	125
OUTPUT VOLTAGE (V)	400/415		
BATT. CAPACITY (kWh)	115	230	260
COOLING METHOD	Air-cooled	Air-cooled	Liquid-cooled
CHAG./DISCHAR. RATE	1C	1C	0.5C



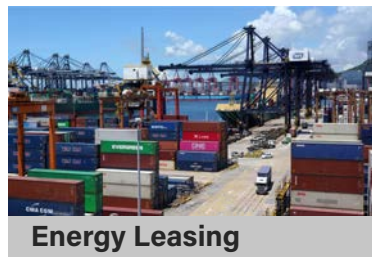
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Energy Storage System

CHE Series Application Scenario

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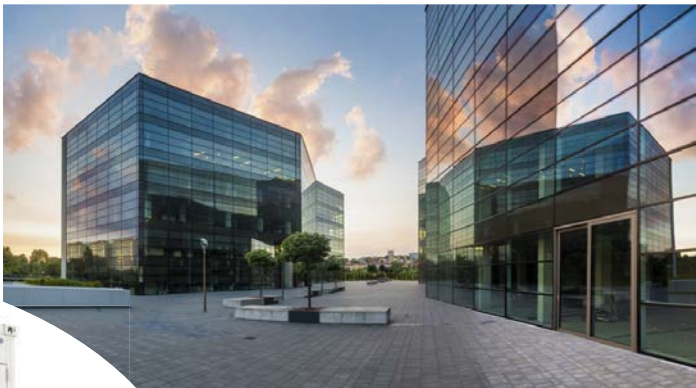
- SMALL-SCALE FACTORY
- COMMERCIAL INSTITUTIONS
- SUPERMARKETS
- HOTELS
- SHOPPING MALLS



Supermarkets-provides emergency power



Hotels-independent power supply, lower electricity bills



Commercial institutions-provides backup power

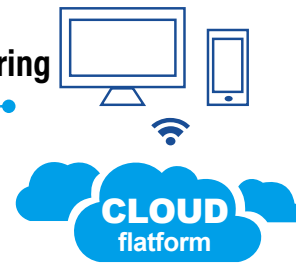


Small-scale factory-provides independent power

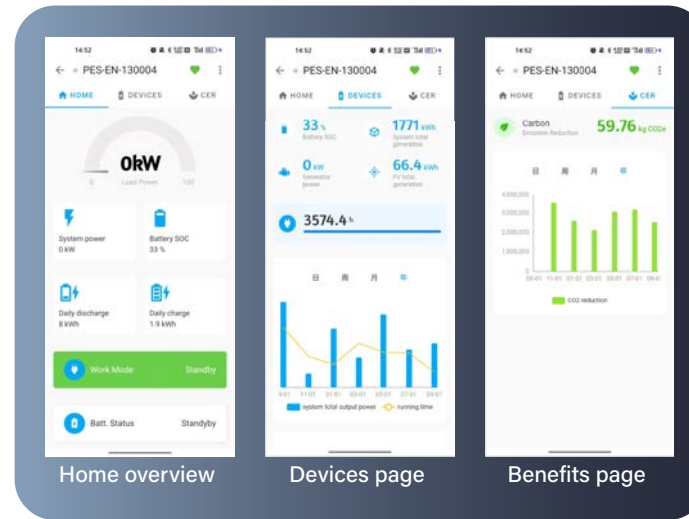


CHE series products

Cloud monitoring



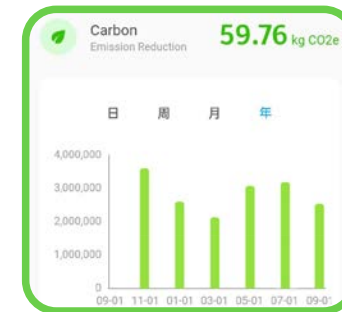
Login



- The client monitors the system data and operation status in real-time



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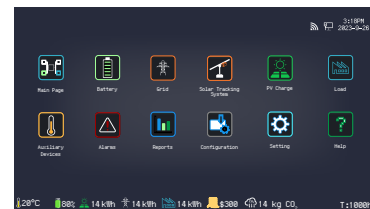


- Automatically generate detailed reports on system performance, energy saving and emission reduction, return on investment

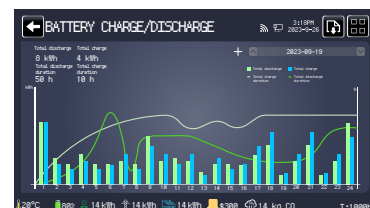
Local monitoring



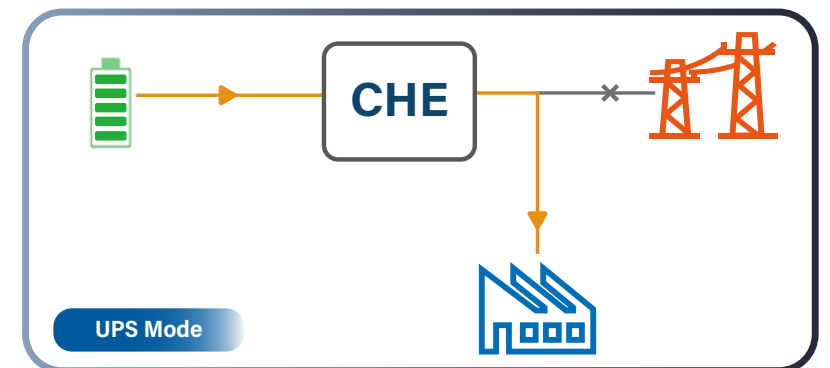
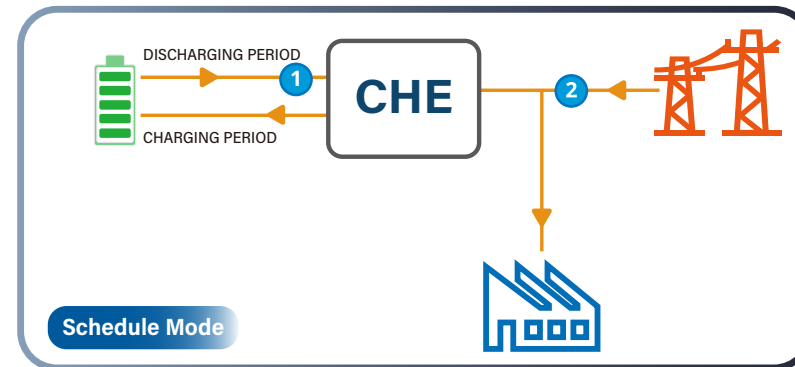
HMI main page



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Data reports



NOTE: ①② represents the priority of charge/discharge.

Energy Storage System

CHE series products

Protection Strategy

Batt. charge protect	When the battery SOC reaches 100%, EMS limited charging function and put the battery in standby or discharging mode.			
Batt. discharge protect	When the battery SOC is less than or equal to 100%, stop discharging and put the battery in standby or charging mode.			
Emergency stop protect	Overload protect	Undercurrent Protect	Short circuit protect	
Underfrequency protect	Overfrequency protect	Undervoltage protect	Overvoltage protect	Firefighting protect

Firefighting System

- Argon-driven
- Water-based fire extinguishing agent
- Rapid fire extinguishing
- Environmental protection



Cooling System

- Quick cooling
- Maintain constant temperature



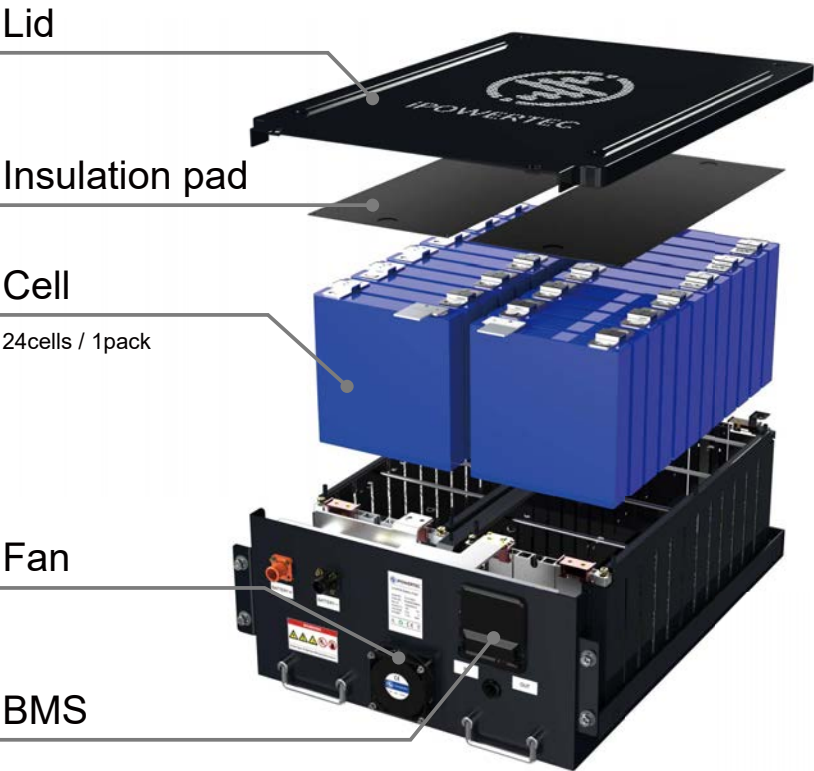
Warranty Statement

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Unit (Excluding battery module)
-2 years



Battery module
-5 years



Energy Storage System

CHE series products

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- Large capacity energy storage system, suitable for commercial fields, peaking shaving and valley filling, reduce electricity costs,. The output power is 125kWe.
- BMS system adopts three-level management architecture such as battery stack, battery cluster and battery pack, with a total capacity of 115-260 kWh.
- The fire protection system uses water-based fire extinguishing agent, and is equipped with automatic detection system and trigger system such as smoke and temperature sensing.
- EMS intelligent management system, which provides real-time monitoring and scheduling for BMS system, PCS system, etc., and can be operated through local or remote APP & WEB interfaces.
- Large capacity refrigeration system, cooling power 10-20kW, so that the entire unit to adapt to the ambient temperature -30-50 °C .
- The entire unit has insulation on all four sides and the top, with a top insulation thickness of 100mm.
- The protection level of the entire unit is IP54, which is suitable for harsh environment.
- The power output panel is equipped with quick socket, wiring copper bar, etc., plug and play.
- The bottom of the container is equipped with forklift holes, which is easy to move frequently and put into use quickly.

Energy Storage System

CHE series products

	UK	AMERICA	AUSTRALIA
CHE SYSTEM	✓ UN 38.3 ● IEC 62477 ● EN 61000-6-1/2/3/4 ● 2011/65/EU 2015/863/EU ● 1907/2006/EC ● IEC/EN 60529	✓ UN 38.3 ● UL 1973 ● UL 9540 ● UL 9540A ● Part15B	✓ UN 38.3 ● IEC 62619 ● IEC 60730 ● IEC 62040 ● AS/NZS 61000-6-3 ● AS/NZS 61000-6-4
ON-GRID	✓ G99	● UL1741 ● IEEE 1547	● CEC List ✓ AS4777.2
BATTERY PACK	● IEC 62619 ● IEC 60730 ● IEC 63056	● UL 9540A ● UL 1973	● IEC 62619 ● IEC 60730
BATTERY CELL	✓ IEC 62133	✓ UL 1642	✓ AS/NZS 62133 ✓ IEC 62619

NOTE: ✓ Certified
● Certificate application in progress