

Water Cooling ESS



*Due to domestic and foreign regulatory requirements, as well as differences in appearance and layout caused by differences in standards, the product pictures on this page do not make special explanations and distinctions, and are subject to actual project requirements..

Product Introduction

POWAECOSYS series industrial and commercial energy storage all-in-one machine integrates battery cluster, BMS, EMS, liquid cooling, fire protection, transformer, PCS, STS and other functions into one, making it easy to install and operate. The extremely comprehensive system safety design greatly improves battery performance and extends battery life. Multiple devices can be directly connected in parallel to expand the energy storage system

Efficient integration

The integrated ESS creates a more convenient transportation and operation and maintenance model, enabling extremely fast installation and putting into use.

Smart liquid cooling

The built-in liquid cooling unit controls the temperature deviation of the battery cells of the entire system within 3 degrees Celsius, increasing the battery life by up to 20%.

Multi-level protection

Three-level management structure accurately provides short-circuit protection, over-current protection, over-voltage protection, under-voltage protection, Over-temperature protection and other functions.

Safe and reliable

LFP battery, automotive grade battery protection
 PACK level fire protection (optional)
 Physical isolation of batteries and power distribution
 Outdoor cabinet protection upgrades, optimized cooling air ducts to protect against sand, dust and rain

Smart and friendly

Modular design, flexible expansion
 Remote APP online real-time monitoring, risk warning push and off-grid switching are flexible and convenient

Environmental protection

Energy saving and emission reduction, environmentally friendly industrial chain, green supply system, and complete battery recycling system



Industrial and commercial energy storage systems
 +Emergency power backup system



microgrid system



Optical storage charging

POWAECOSYS Series

Technical Parameters

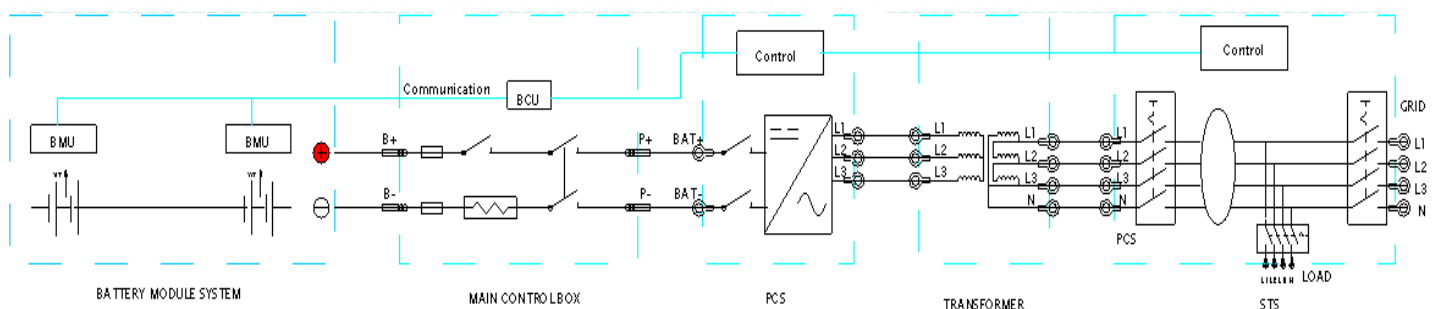
Module	PS-100K-215	PS-200K-430
Battery parameters		
Rated energy	215kWh	430kWh
Rated voltage	768V	768V
Battery Type	LFP (from GanFeng)	
Cell specifications	3.2V 280Ah	
series and parallel connection	1P*48S*5S*1	1P*48S*5S*2
DC voltage range	660~864V	660~864V
AC parameters		
Rated power	100kW	
Maximum output power	110kW	
Rated grid voltage	230V/400V, 3P+N+PE	
Rated grid frequency	50/60Hz	
Current total harmonic distortion rate (%)	< 3% (Nominal power)	
Power factor	-1~+1	
Basic parameters		
Protection level	IP65	
Isolation method	Three-phase dry isolation transformer	
Operating temperature	-20~55°C (> 45°C Downclocking)	
Cooling method	liquid cooling (Battery)	
Maximum working altitude	2000m	
Cycles	> 8000	
Communication Interface	CAN, LAN, RS485	
Maximum system efficiency	90%	
Charge and discharge rate	0.5C	
Charge/discharge switching time	100ms	
Discharge depth	0~100%DoD	
Noise	< 70db	
Relative humidity	5~95%RH, No condensation	
Fire Fighting System	Perfluorohexanone/PACK level fire protection	
Dimensions (W x Dx H)	3900*2250*2500mm	
Weight (including battery)	~6500kg	

*Final technical parameters may be adjusted based on certification standards;

*PS-100K-215 will be launched on the market first;

*If product dimensions and parameters change, please refer to the latest information without further notice.

Control topology diagram



Shandong Huison Electronics Technology Co.,Ltd.

0632-7526625 7526626

sales@huisonbattery.com