PC-261KWH
Energy Storage System

PC-261KWH Liquid-cooled Energy Storage System: Intelligent liquid cooling ensures safety and reliability. Modular design enables easy expansion, supports high-efficiency PV-storage matching, and allows flexible capacity scaling up to

Product Features:

High-level Safety Protection
Equipped with pressure monitoring, three-stage fire suppression, active discharge, and explosion-proof design, providing comprehensive safety coverage.

Intelligent Precision Temperature Control
Utilizes smart liquid cooling technology to achieve cluster-level precise temperature control, with system temperature variation below 3°C.

Extremely Simplified Maintenance
Fully modular design and pre-maintenance planning significantly reduce on-site operational complexity.

High Environmental Adaptability
The system features C4 corrosion resistance and IP65 protection for both PACK and PCS, making it suitable for various harsh indoor and outdoor environments.

High-efficiency PV-Storage Matching
PV-to-storage ratio reaches 0.7:1, significantly improving green energy charging efficiency.

Flexible Expansion Capability
A single unit supports 240kW, with up to 10 units connectable in parallel, allowing system expansion up to 2.6MWh.

Product Specification

Model		PC-261kWh
Main Parameter		
Battery Type		LiFePO4
Module Energy(kWh)		52.24
Module Rated Voltage(V)		166.4
Rated Capacity(Ah)		314
No. Of System Module In Series		5
System Rated Voltage(V)		832
System Operating Voltage(V)	Charge Voltage	936
	Discharge Voltage	728
System Nominal Energy (kWh)		261.24
System Dischargeable Energy (kWh)		250.79
Charge/ Discharge Current(A)	Rated Current	190
	Max. Current	195
	Overload Current	200(10sec,25°C)
Status Indicator Light		Blue: energy storage system start status, green: energy storage system operation status, red: energy storage system fault status
Communication Protocol		CAN2.0
Working Temperature Range (°C)		Charge：0~ 50/Discharge：-10~ 55
Working Humidity Range		≤95% (No condensation)
Working Altitude		≤2000m
System Cooling Method		Liquid Cooling
Waterproof Rating		IP55
Installation Place		Indoors/Outdoors
Weigt(kg)		2800
Max. Dimension(W*D*H mm)		1592*1347*2180
Storage Temperature(℃)		25~35
Recommended Discharge Depth		90%
Cycle Life		≥10000 Cycles (25°C±2°C, 0.35C, 80%DOD@65%EOL)
Certification		Cell UL1973/IEC62619/UL9540A/TUV/CE/UN38.3
Warranty		5 Years(Under Warranty Terms)
Energy Throughput[1]		572MWh

[1] Conditions apply, refer to POWERBOX Waranty Letter.

Model	PC-PDU 1000VDC250A(WIFI)
Working Voltage	250~1000Vdc
Rated Charging/Discharging Current	190A
Charging/Discharging Current Support	250A
Working Temperature Range	Charge:0~ 50°C/Discharge:-10 ~ 55°C
Waterproof Rating	IP55
Dimensions (W * D* H)	770*597*171mm
Weight	≈30kg
Parallel Operation	Not support

Model	PC-52S314A
Battery Type	LiFePO4(LFP)
Rated Voltage	166.4Vdc
Rated Capacity	314Ah
Rated Power	31.34kW
Rated Charging/Discharging Current	190A
Max. Charging/Discharging Current	195A
Working Temperature Range	Charge:0~ 50°C/Discharge:-10 ~ 55°C
Waterproof Rating	IP55
Dimensions (w * d* h)	790*1138*240mm
Weight	≈330kg

Product Specification

YF0.13Q（Fire suppression system)

GS-STS-240

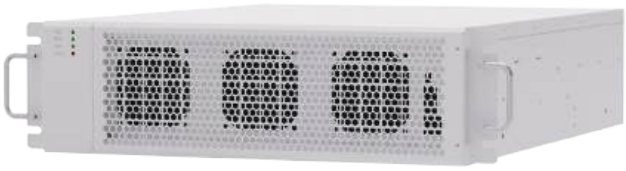
Model	YF0.13Q（Fire suppression system)
Working Environment Temperature	-40~+70°C
System Type	Non-Pressurized Storage
Discharge Time	≤3s
Activation Type	Thermal (Heat-Activated)
Operating Relative Humidity	≤95%RH
Max. Discharge Pressure	2MP
Thermal Activation Temperature	185°C±15°C

PS: The cabinet must be independently laid with grounding cables connected to the battery grounding bar, and the resistance value between the cabinet grounding point and the grounding bar should be less than 4 Ω. (It is strictly prohibited for the cabinet to share the grounding circuit with the grid ground wire)

Model	GS-STS-240
Rated Output Power	240kW
PCS Power	120kW
Load Power	120kW
Rated Grid Voltage	380/400V
Input Voltage Range	±15%
Output Voltage Range	±15%
AC Rated Current	360A
Long-Term Overload Capability	1.1
AC Frequency	50/60±5Hz
Connection Type	3-Phase 3-Wire
On/Off Grid Shifting Time	≤ 20 ms
Highest Efficiency	99.5%
Max. Efficiency	Forced Air Cooling
Installation Method	Modular Rack-mount
Noise	＜70dB
Operating Temperature Range	30～60°C（Derating above 50°C）
Storage Remperature Range	40~70°C
Humidity Range	0~95%，Non-condensing
Altitude	3000m
Ingress Protection Rating	IP20
Dimensions (mm)	436*550*130
Weight	55kg
Communication Interface	RS485,CAN,Dry contact

PS: The overall configuration of this energy storage system follows a three-phase five-wire scheme. Except for the internal STS module, which operates on a three-phase three-wire system (L1, L2, L3 only), the system requires the additional connection of an independent neutral conductor (N) and a protective earth conductor (PE). To meet the system's ground-fault current capacity and consistency requirements, it is recommended that all mentioned cables — including the phase conductors for the STS and the additional N and PE conductors — be of 95 mm² cross-sectional area.

Product Specification



MPPT60A*3（After parallel connection)

MA1000K130

Model	MPPT60A*3（After parallel connection)
PV Side Parameters	
Max. Open Circuit Voltage	600V
Max. Input Power	60kW*3
MPPT Voltage Range	400~600V
No. Of MPPT Channels	1
No. Of PV Input Channels	1
Max. Input Current	200A*3
High Voltage Side Parameters	
Max. Voltage	1000V
Rated Voltage	800V
Voltage Range	350~1000V
Max. Output Current	100A*3
Max. Output Power	60kW*3
General Parameters	
Operating Temperature Range	-30°C to +60°C (derating above 50°C)
Protection Rating	IP20
Working Altitude	≤2000
Max. Efficiency	98.5%
High/Low Voltage Start-Up Fuction	yes
Dimensions(mm)	436*571*130
Weigh(kg)	30

PS:PV DC Input Open-Circuit Voltage Range: 500–600 Vdc.For system design, a PV open-circuit voltage (Voc) of 572 Vdc is recommended. This ensures that the PV input voltage does not exceed the system's maximum input voltage limit while providing an adequate safety margin.

Model	MA1000K130
DC Side Parameters	
Max. Voltage	1000V
Full-Load Voltage Range	680~950V
Mini. Voltage	680V
Max. Charge/Discharge Current	191A
AC On-Grid Parameters	
Max. Continuous Power	130kW
Rated Voltage	230/400V,3P+N+PE
Reactive Power Adjustment Range	±97.5
Rated Frequency	50/60
Power Factor	0.99
Power Factor Adjustment Range	0.8cap-0.81ind
AC Off-grid Parameters	
Rated Voltage	230/400V,3P+N+PE
Rated Frequency	50/60Hz
Max. Continuous Power	130kW
Max. Peak Power	156kW
Output Range	400V±15%
Unbalanced Load Capability	100%
General Parameters	
Operating Temperature Range	-30°C~60°C（derating above 50°C）
Protection Rating	IP66
Working Altitude	≤3000
Max. Efficiency	98.8%
AC/DC Start-Up Function	Yes
Dimensions (mm)	600*800*285
Weight(kg)	85
General Parameters	
Battery BMS Communication Interface	CAN、RS485
Supervisory Communication Interfaces	Ethernet,RS485,CAN
Supervisory Communication Protocol	Modbus TCP/ Modbus RTU