



NEW ERA, NEW ENERGY

Work together
and achieve
mutual success

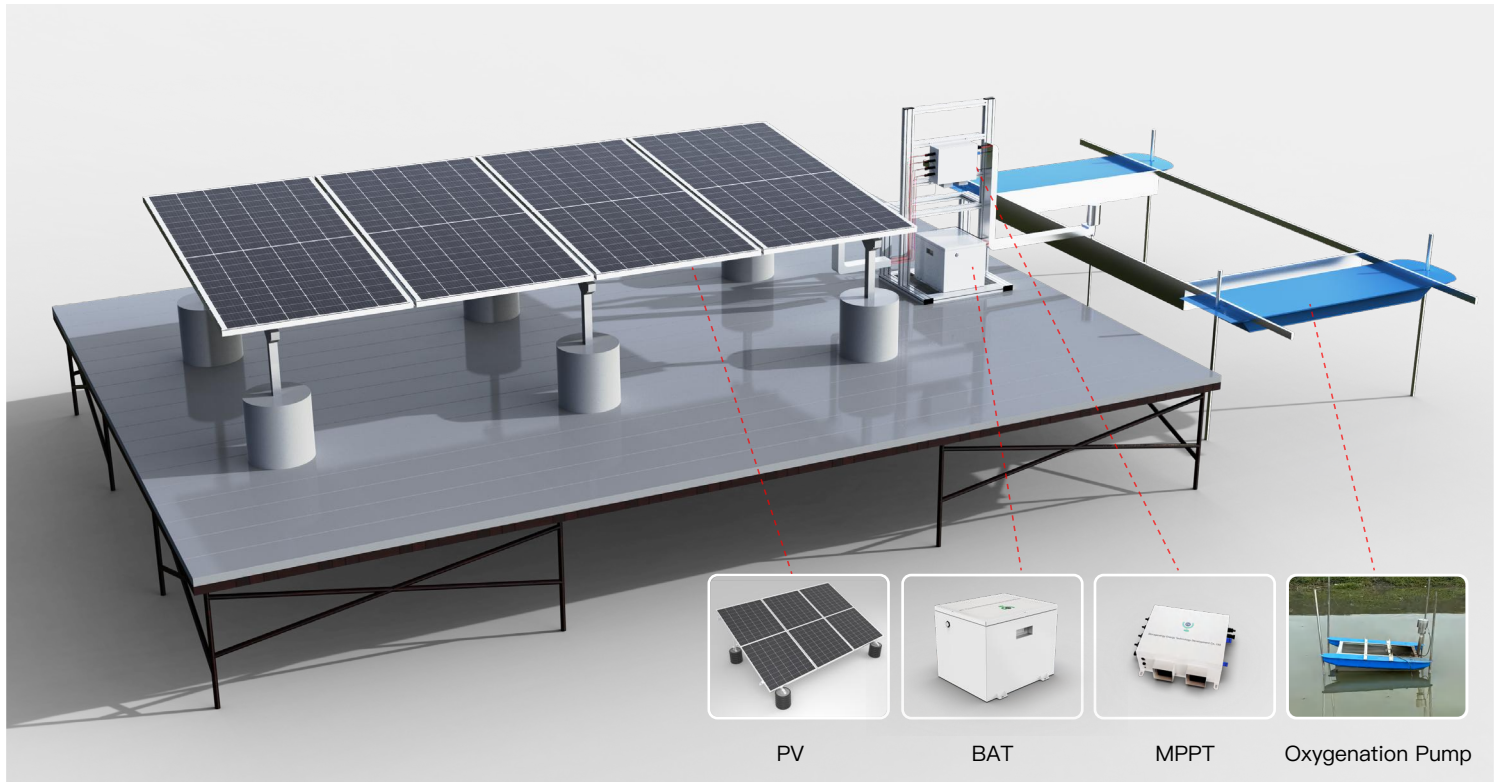
PV+ESS Integrated System

PEIS-E2



PEIS-E2

PV+ESS Integrated System



Product Details

- It can be used with a DC load of approximately 1500W, and supports remote/timed control of system operation, featuring intelligence and high efficiency.
- Using a high-efficiency MPPT controller, the power generation efficiency is high, and even if some photovoltaic panels are on the shaded side, it does not affect the overall power generation;
- The battery is designed with an IP65 protection rating and utilizes lithium battery technology, ensuring a high level of safety. It features a modular structure, stable performance, easy installation, and user-friendly operation;
- Expandable utility power access with intelligent AC/DC switching;

Product Information

PV

Max. input current	30 A
Max. input voltage	100 V
Number of MPPT	4
Strings per MPPT	1/1

Battery

Battery type	LFP (LiFePO4)
Stored electrical energy	5.12/6.4 kWh
Battery capacity	100/125 Ah
Depth of discharge (DoD)	85%
Operating voltage range	44.8–58.4 V

MPPT

PV input	4P, 1/2S
Communication Protocol	CAN/Bluetooth/RS485/UART/WiFi (optional)/4G (optional)
Connection Type	AC (L+N+PE) /DC (48V)

Load

Max.power output	1500W
Max.current output	30 A
Max.output voltage	50 V

Basic parameter

Cycle-index	4000
Weight	≈55/65 kg
Energy storage dimensions (W*D*H)	500*425*250/425*350*340 mm
MPPT dimensions (W*D*H)	330*125*325 mm
IP rating	IP65
Charging temperature	0~45 °C
Discharge temperature	-20~60 °C
Storage humidity	15~85%
Warranty	5 Year *

Reference standard

Certification	UN38.3, CE
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* For detailed information regarding application conditions, please refer to the warranty terms of EPOCH battery.

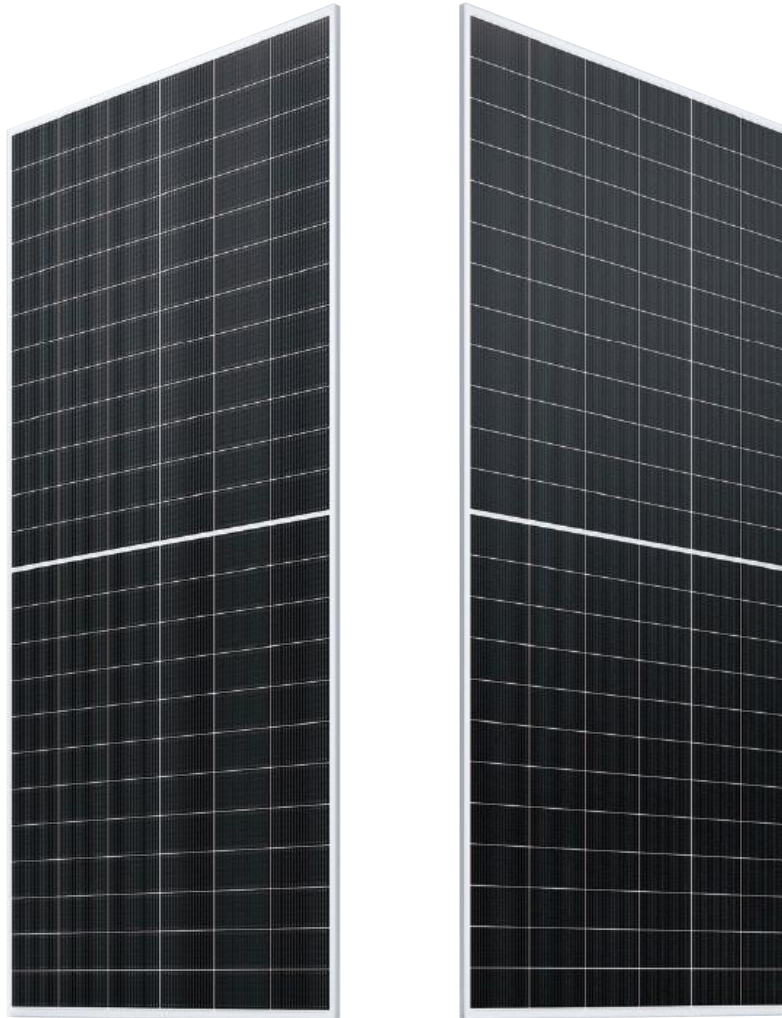


CG-EH



High-efficiency monocrystalline silicon single-sided half-cell solar module

EPOCH 575–595W

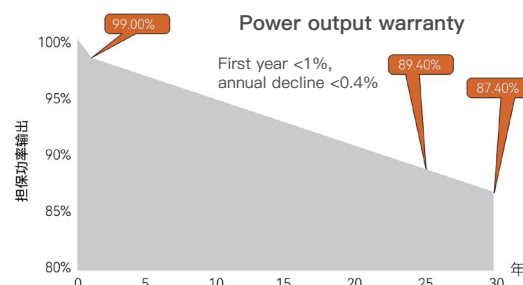


Product Details

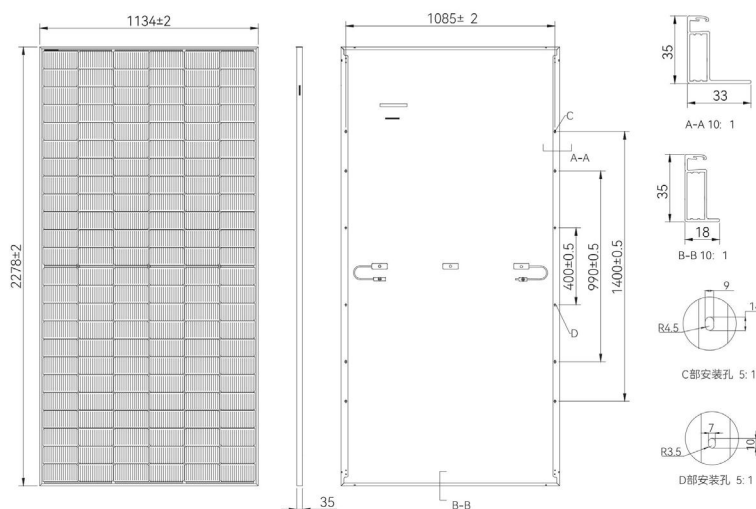
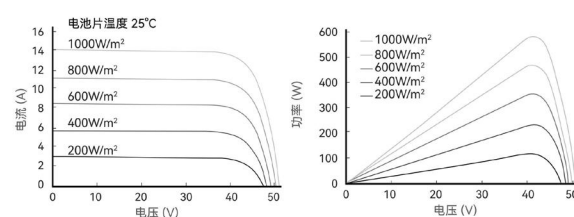
- N-type modules using Tunnel Oxide Passivating Contacts (TOPCon) technology have lower LID/LeTID degradation.
- N-type modules using HJT 2.0 technology have better reliability and conversion efficiency.
- Better light utilization and current collection capabilities effectively improve product power output and reliability.
- Minimize the probability of degradation caused by the PID phenomenon through optimization of battery production technology and material control.

Regular PV Module Parameters	CG575	CG580	CG585	CG590	CG595
Electrical performance (Pm)					
Maximum power (Pm)/(w)	575	580	585	590	595
Power tolerance			0~+5		
Optimal operating voltage (Vm)	44.83	45.03	45.23	45.43	45.6
Optimal operating current (Im)	12.83	12.9	12.94	13.00	13.05
Open-circuit voltage (Voc)	52.60	52.80	53.00	53.20	53.40
Short-circuit current (Isc)	13.46	13.50	13.54	13.58	13.95
Module effective efficiency	22.3	22.5	22.6	22.8	23.0
STC:AM=1.5, Irradiance 1000W/m ² , Module temperature 25, maximum power test uncertainty ±3%					
Performance parameters (NMOT)					
Electrical performance (Pm)/(w)	435.2	438.9	442.7	446.5	450.3
Optimal working voltage (Vm)	50.03	50.22	50.41	50.60	50.79
Optimal working current (Im)	10.59	10.63	10.66	10.69	10.98
Open-circuit voltage (Voc)	43.15	43.34	43.54	43.73	43.89
Short-circuit current (Isc)	10.08	10.12	10.16	10.21	10.24
NMOT: irradiance 800W/m ² , Ambient temperature 20, wind speed 1m/s					
Temperature coefficient					
Rated operating temperature of battery (NMOT)		45±2°C			
Power temperature coefficient		-0.28%/°C			
Voltage temperature coefficient		-0.24%/°C			
Current temperature coefficient		+0.046%/°C			
Mechanical Performance					
Module installation dimensions (WxDxH)(mm)		2278×1134×35			
Weight		27.0kg			
Backing material		Backboard (white)			
Frame		Aluminum alloy with anodic oxide coating			
IP rating of junction box		IP68,three diodes			
Cable specification (length/cross-sectional area)		Customized according to customers/4mm ²			
Connector		MC4 compatible			
Package					
Mode of transportation	Container	Container	Container		
Specifications	40'HQ	13m	17.5m		
Number of modules per container	620 per	682 per	930 per		
Module dimensions					

Line quality guarantee



IV - Curve



High-Efficient and Independent Solar Controller



Product Details

- Efficient MPPT controllers ensure that even if some photovoltaic panels are in the shade, it does not affect the overall power generation.
- Independent casing ensures the safety performance of the product.
- Supports high-power components;
- MPPT controller voltage balancing, with a maximum conversion efficiency of up to 95.5%.
- Using air cooling to enhance the heat resistance of the control board;
- Supports interactive input;

Technical specification	EH-MPPT
Input (PV)	
Max. power (kW)	2800
Max. DC voltage (V)	100
MPPT voltage range (V)	0~70
Max .input current of single MPPT (A)	20
MPPT tracker/ strings	4/1
AC input (GRID)	
Rated input power (W)	1100
Max . input current (A)	5
Grid voltage range (V)	220/230
Grid frequency (Hz)	50/60
Grid connection type	L+N+PE
Battery data (BAT)	
Battery voltage range (V)	44.8~58.4
Max. charging voltage (V)	50
Max. ccharge/ discharge current (A)	40
Battery type	LFP (LiFePO4)
Communication interface	CAN/Bluetooth/RS485/UART
Load output (EPS)	
Rated power (W)	1500
Operating voltage range (V)	51.2
Max . output current (A)	30
Automatic switching time (ms)	<20
General data	
Battery charge and discharge efficiency	96.5%
Load Efficiency	95.5%
MPPT efficiency	95.5%
IP rating	IP65
Operation temperature range	-25°C~60°C
Cooling method	Fan cooling
Dimensions W*D*H (mm)	330*125*325
Weight (kg)	6
No-load power consumption (W)	<3
Communication	
Communication method	CAN/Bluetooth/RS485/UART/WiFi (optional)/4G (optional)

PondPump Power 5000/6000



Off-grid battery system



Product Details

- Bluetooth function, allowing real-time monitoring of operating status through a mobile app;
- Extra-large capacity, five or six kilowatt-hours can be selected as needed;
- Lithium iron phosphate batteries are individually packaged, safe and reliable;
- IP65 protection rating, worry-free for outdoor use.
- Uses BMS intelligent control for stable operation;
- Compact in size and easy to install;

PondPump Power 5000/6000

Technical specification

Battery system

Battery type	LFP (LiFePO4)
Stored electrical energy	5.12 /6.4kWh
Battery capacity	100/125 Ah
Max.input current	20 A
Max.input voltage	100 V
Max.power output	2500W
Max.current output	50 A
Max.output voltage	51.2 V
Depth of discharge (DoD)	85%
Operating voltage range	44.8–58.4 V
Module series connection	1P16S
Communication protocol	CAN/Bluetooth/RS485/UART

Basic parameter

Cycle-index	4000
Weight	≈55/65 kg
Dimensions (W*D*H)	500*425*250/425*350*340 mm
IP rating	IP65
Charging temperature	0~45 °C
Discharge temperature	-20~60 °C
Storage humidity	15~85%
Warranty	5 Year *

Reference standard

Certification	UN38.3, CE
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* For detailed information regarding application conditions, please refer to the warranty terms of EPOCH battery.



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