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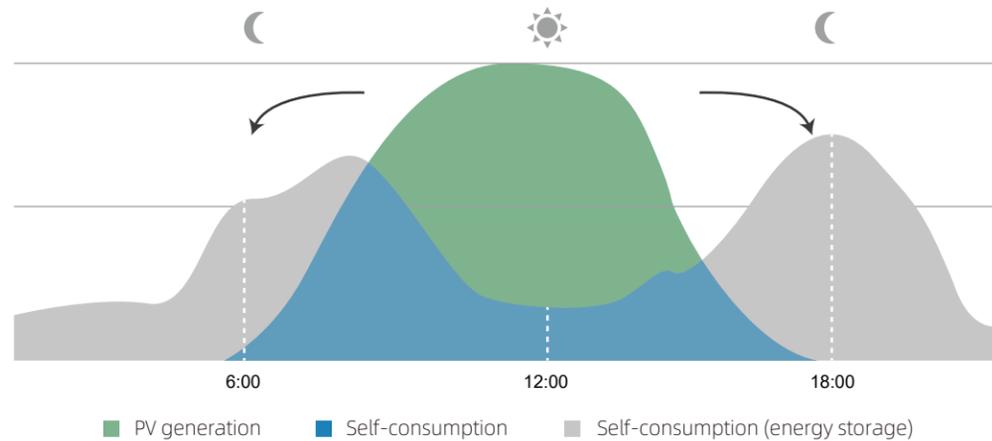


OUR ENVIRONMENT,
OUR ENERGY, OUR FUTURE

PV ONE-STOP SOLUTION

Residential Energy Storage Solution

Integrated with lithium-ion battery energy storage system and home energy management system, the solution is expandable on demand and has a variety of combinations. Flexible, efficient and customized products and services, it is friendly to home users to build a clean, independent and economic micro-grid.



Strengths



More Usable Energy

90% Depth of Discharge
Pack Level Energy Optimization



Flexible Installation

Modular Design,
Scalable from 8 to 64 pcs installation



Safe & Reliable

Lithium Iron Phosphate (LFP) Cell



Easy Installation

Rack-mounted,
wall-mounted, stacked, etc.



Quick Commissioning

Automatically Detected in App
for better after-sales experience



Perfect Compatibility

Compatible to Both Residential
Single or Three Phase Inverter

PRODUCTS PORTFOLIO

OUR ENVIRONMENT, OUR ENERGY, OUR FUTURE

01) LFP 5.0 / 5.8 / 10.0 kWh / LV

02) LFP 5000 / 2400 / 2500 / 2600HV

03) LFP 2.4-19.2 kWh

04) LFP 4.8-19.2 kWh

05) Monitoring System



APEX SOLAR invested in the construction of a new production base in Huishan District, Wuxi City at the end of 2019. The total construction area is 20,661 square meters. It has been used in May 2021.

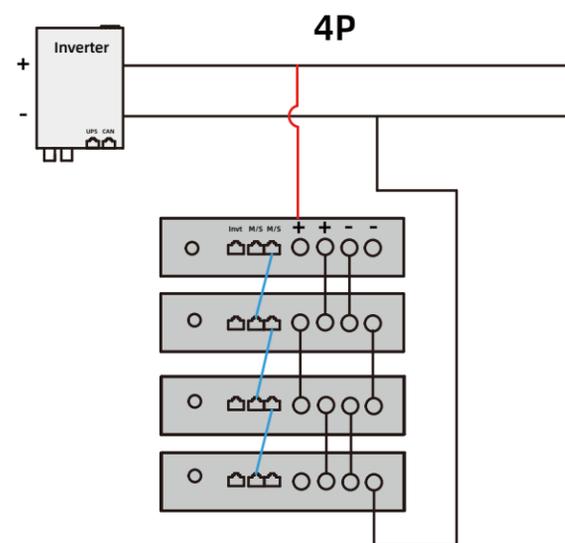
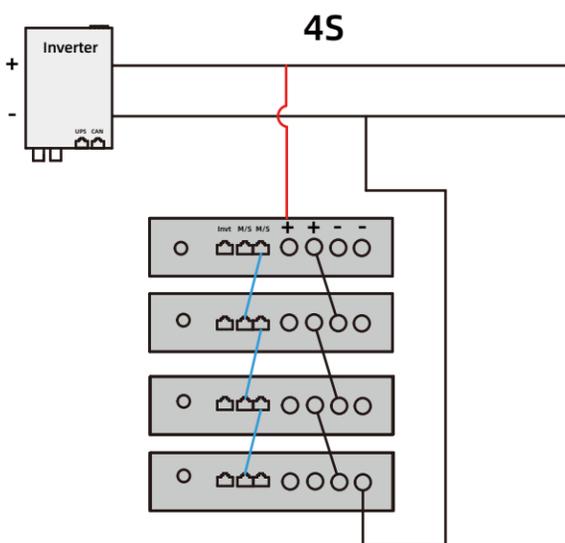
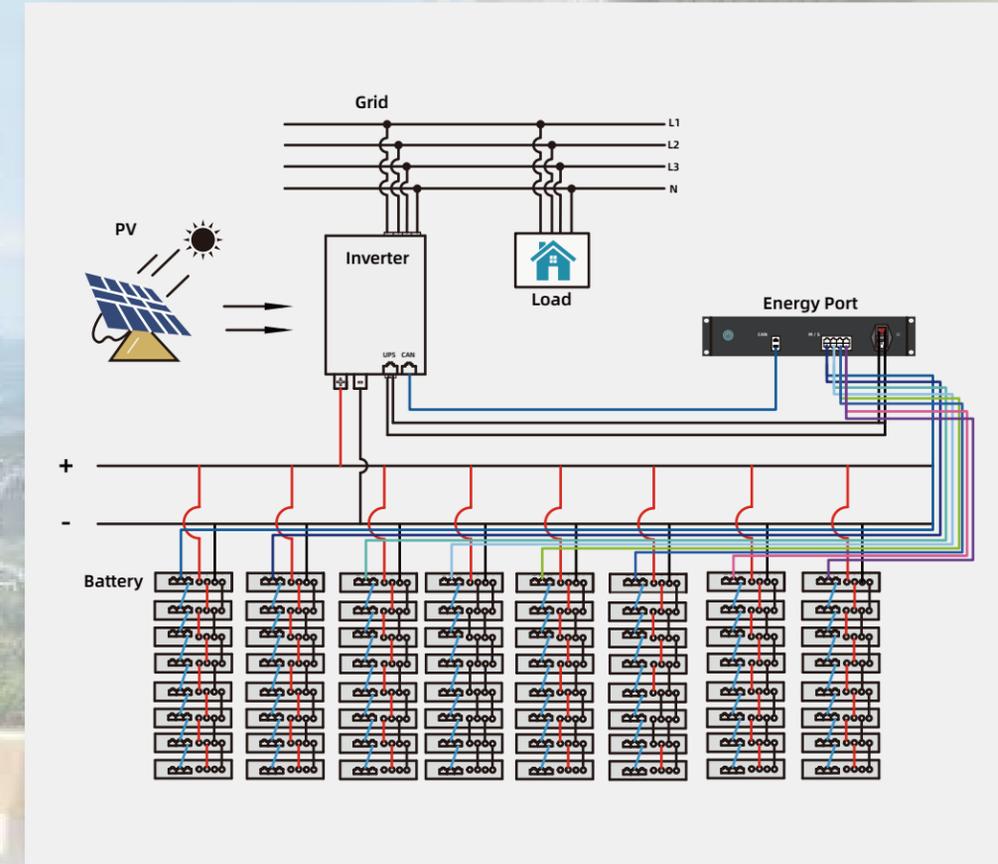
The new production base can accommodate an annual output of 0.8 GWH lithium battery energy storage system. It is a key development project in Huishan District,

Residential BESS

APEX 2400 / 5000 / 2600



- Long Life Reliable LFP cells, Cycle life >6000 cycles
- High Reliability Key devices(Relay,Fuse) approved by UL and IEC
- More Smart With digital monitor system App with WIFI
- Smart Design & Easy installation Plug in & off
- More Quiet Without fan, reduce the risk of fan failure



- Assembly freely in series or parallel Up to 8S8P
- High energy efficiency (charge and discharge)>97%
- High Rate Charge & Discharge Nominal 0.6C, Max 0.8C
- More Safety Dual hardware & Triple software protection
- Safe and Reliable BMS Relay design instead of mosfet

7 CORE ADVANTAGES

1

On/off management including automatic wake-up function

Due to the complex operating conditions of the off-grid system, in rare circumstances the battery will run out of power. It enables the customers to solve the problem of manual operation.

2

Triple electrical safety protection

User's safety will be effectively guaranteed.

3

Series and parallel supported

Products of the same model can be installed in series or in parallel.

4

SOC dynamic calibration

Sophisticated strategy allows SOC to calibrate itself and make it more precise.

5

Battery Integration Strategy

The case that customers add a new battery to the original system in their later usage can be matched by this strategy.

6

Current and single voltage acquisition accuracy

It ensures precise acquisition of current and voltage.

7

Remote monitoring

Our products support both Web-side and App-side data monitoring.

Technical Specifications

Model	APEX-2400	APEX-5000	APEX-2600	
Total Energy*	2.4kWh	5.1kWh	2.56kWh	
Usable Energy(DC)*	2.2kWh	4.8kWh	2.2kWh	
Nominal Dis-/Charge Power	1.5kW	3.0kW	1.5kW	
Peak Power(Only Discharge)	3kW for 3s	6kW for 3s	3kW for 3s	
Constant Current(Only Discharge)	40A	80A	20A	
Voltage	48~56Vd.c	48~56Vd.c	96~112Vd.c	
Nominal Voltage	51.2Vd.c	51.2Vd.c	102.4Vd.c	
Nominal Current	30A	60A	15A	
Max. Charge Voltage	57.6Vd.c	57.6Vd.c	115.2Vd.c	
Weight	27.5kg	45kg	27kg	
Dimension(mm)	500*442*133mm	500*448*135mm	500*442*88mm	
Max.recommended DOD	90%			
Operating Condition	Indoor			
Operating Temperature	Charge	From 0~50 °C		
	Discharge	From -10~55 °C		
WiFi Frequency Range	2400MHz~2483MHz			
Humidity	<60%(No condensed water)			
Over Voltage Category	II			
Cooling Type	Natural cooling			
Case Material	Metal			
Color	Black or White			
Installation	Wall mounting/Ground Installation			
IP rating	IP 20			
Protective Class	I			
Max. Connection Number	8S/8P	8S/8P	8S/8P	4S
Warranty	10 years			
Life Span	>15 years			
Communication	CAN/ RS485			
Protection Mode	Dual hardware protection			
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature			
Safety	Cell UL 1973	Cell UL 1973	Cell TUV	Cell TUV
	CE/TUV			
Hazardous Material Classification	9			
Transportation	UN 38.3			

Testing conditions based on temperature 25 °C at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from Uhome 0.2C CC-CV

Residential BESS Smarter, Cleaner, Healthier Life !

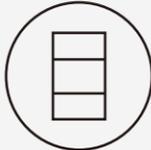


LFP 2.4-19.2 kWh



LFP 4.8-19.2 kWh



-  LiFePO4 Safe Battery Chemistry
-  >6,000 Cycles at 90% DOD
-  Easy Installation & After Sales Service
-  Intelligent Build in BMS
-  Wall Mounted & Parallel Connection
-  Safety Protection and Easy Move



- 1 Module Design, Easy to Transport, Install and Maintain
- 2 Remote Control System via APP and Transfer Data
- 3 Available with Inverter

Technical Specifications

Energy Pod								
Items	2.4kWh	4.8kWh	7.2kWh	9.6kWh	12kWh	14.4kWh	16.8kWh	19.2kWh
Nominal Capacity	2.4kWh	4.8kWh	7.2kWh	9.6kWh	12kWh	14.4kWh	16.8kWh	19.2kWh
Size (L x W xH)(mm)	650 x300x395	650x300x575	650x300x755	650x300x935	650x300x1115	650x300x1295	650x300x1475	650x300x1655
Weight	32kg	56kg	80kg	104kg	128kg	152kg	176kg	200kg
Maximum Usable Capacity	2.2kWh	4.4kWh	6.6kWh	8.8kWh	11kWh	13.2kWh	15.4kWh	17.6kWh
Rated Discharge/ Charge Current	30A	60A	90A	120A	120A	120A	120A	120A
Nominal Dis-/ Charge Power	1.4kW							
Peak Power(Only Discharge)	2.9kW for 3s							
Voltage	45~52.5Vd.c							
Nominal Battery Operating Voltage	48V							
Nominal Current	30A							
Max. Battery Voltage	51.75V							
Max.recommended DOD	90%							
Operating Condition	Indoor or outdoor							
Operating Temperature	From -10~50 °C							
WIFI Frequency Range	2400MHz~2483MHz							
Humidity	<60%(No condensed water)							
Pollution Degree	3							
Over Voltage Category	II							
Cooling Type	Natural cooling							
Case Material	Aluminium alloy							
IP rating	IP 65							
Efficiency	96%							
Protective Class	I							
Max. Number of Parallel	85/8P							
Warranty	10 years							
Life Span	>15 years							
Communication	CAN/ RS485							
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature							
Hazardous Material Classification	9							
Transportation	UN 38.3							
Certification & Safety Standard	   							

Technical Specifications

Energy Pod				
Items	4.8kWh	9.6kWh	14.4kWh	19.2kWh
Nominal Capacity	4.8kWh	9.6kWh	14.4kWh	19.2kWh
Size (L x W xH)(mm)	650x300x475	650x300x740	650x300x1005	650x300x1270
Weight	46kg	84kg	122kg	160kg
Maximum Usable Capacity	4.4kWh	8.8kWh	13.2kWh	17.6kWh
Rated Discharge/ Charge Current	60A	120A	120A	120A
Nominal Dis-/ Charge Power	2.8kW			
Peak Power(Only Discharge)	4.8kW for 3s			
Voltage	45~52.5Vd.c			
Nominal Battery Operating Voltage	48V			
Nominal Current	60A			
Max. Battery Voltage	51.75V			
Max.recommended DOD	90%			
Operating Condition	Indoor or outdoor			
Operating Temperature	From -10~50 °C			
WIFI Frequency Range	2400MHz~2483MHz			
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Delivering Smart, Clean Energy !



Monitoring System



- Intelligent and Thoughtful**
Accurate algorithms for real-time monitoring and data transmission
- Turning Complexity into Simplicity**
Optimize framework layout
- Full-Featured Entrance**
Streamline information communication
- Tab Section Emotional Design**
Visual design from user needs

The app independently developed by apex solar can accurately locate the installation location of products, display the equipment operation status or possible faults in real time, and turn passive service into active service, so as to ensure that customers can use apex solar energy storage products within 24 hours.



Certification & Honor



Global Delivery

