

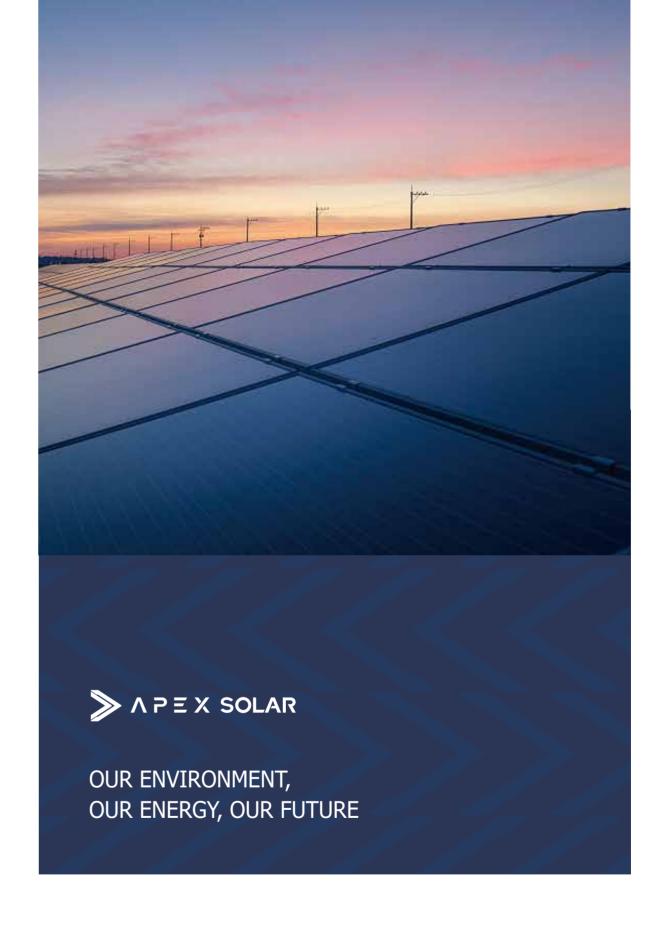
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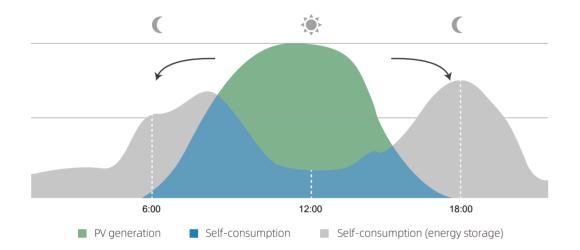
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PV ONE-STOP SOLUTION

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









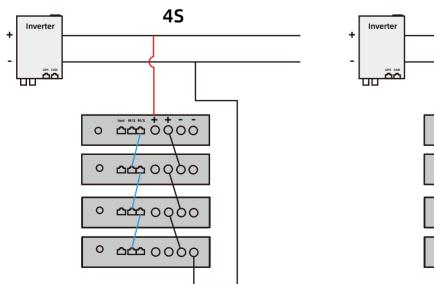


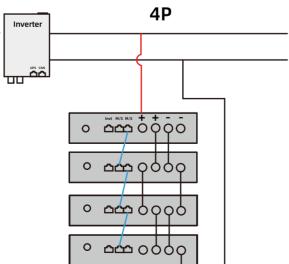


APEX SOLAR invested in the construction of a new production base in Huishan District, Wuxi City at the end of 2019. The total construction area is 20,661 square meters. It has been used in May 2021.

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,







- Assemblly 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



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.



Triple electrical safety protection

User's safety will be effectively guaranteed.



Series and parallel supported

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



SOC dynamic calibration

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



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.



Current and single voltage acquisition accuracy

It ensures precise acquisition of current and voltage.



Remote monitoring

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

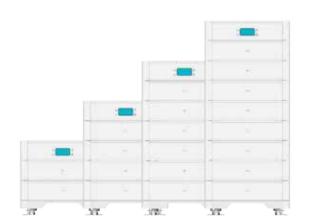
Technical Specifications

Model		APEX-2400	APEX-	5000	APEX-2600	
Total Energy*		2.4kWh	5.1k	Wh 2.56kWh		
Usable Energy(DC)*		2.2kWh	4.8k	4.8kWh 2.2kWh		
Nominal Dis-/Charge Power		1.5kW	3.0	.0kW 1.5kW		
Peak Power(Only Discharge)		3kW for 3s	6kW f	W for 3s 3kW for 3s		
Constant Current(Only Discharge)		40A	80	80A 20A		
Voltage		48~56Vd.c	48~56	6Vd.c 96~112Vd.c		
Nominal Voltage		51.2Vd.c	51.2	51.2Vd.c 102.4Vd		
Nominal Current		30A	60)A	15A	
Max. Charge Voltage		57.6Vd.c	57.6	6Vd.c 115.2Vd.c		
Weight		27.5kg	45	kg	27kg	
Dimension(mm)		500*442*133mm	500*448*	*448*135mm 500*442*88mm		
Max.recommended DOD		90%				
Operating Condition		Indoor				
Operating Temperature	Charge	From 0~50 °C				
	Discharge	From -10~55 ℃				
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 I				
Max. Connection Number		8S/8P	8S/8P	8S/8P	45	
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 CE/T	Cell TUV 'UV	Cell 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

LFP 2.4-19.2 kWh





LiFePO4 Safe Battery Chemistry

>6,000 Cycles at 90% DOD









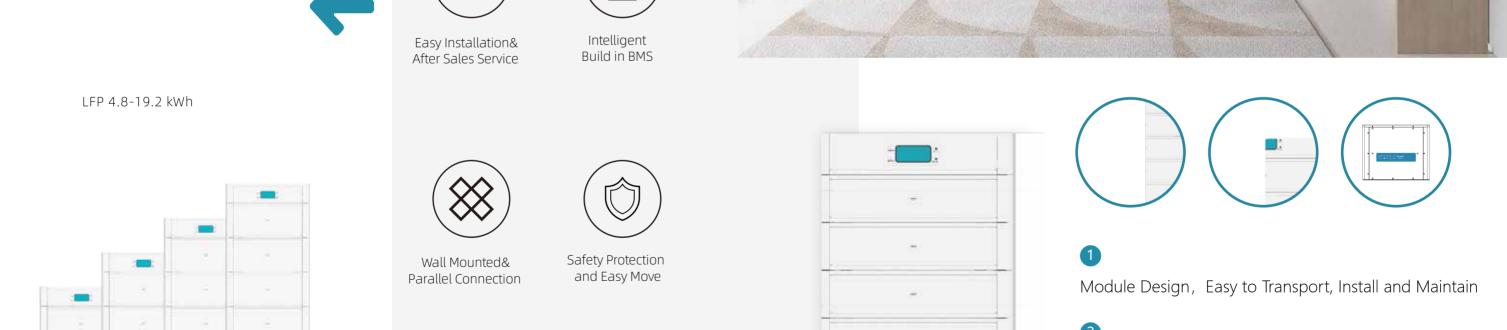


Remote Control System via APP and Transfer Data

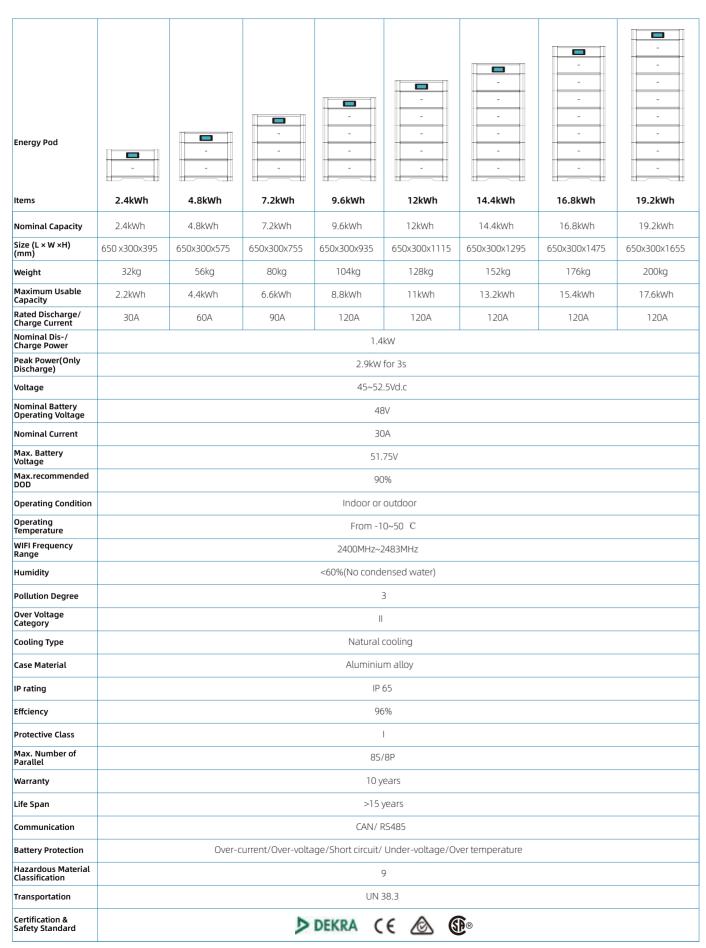
Residential BESS

Smarter, Cleaner, Healther Life!

Available with Inverter

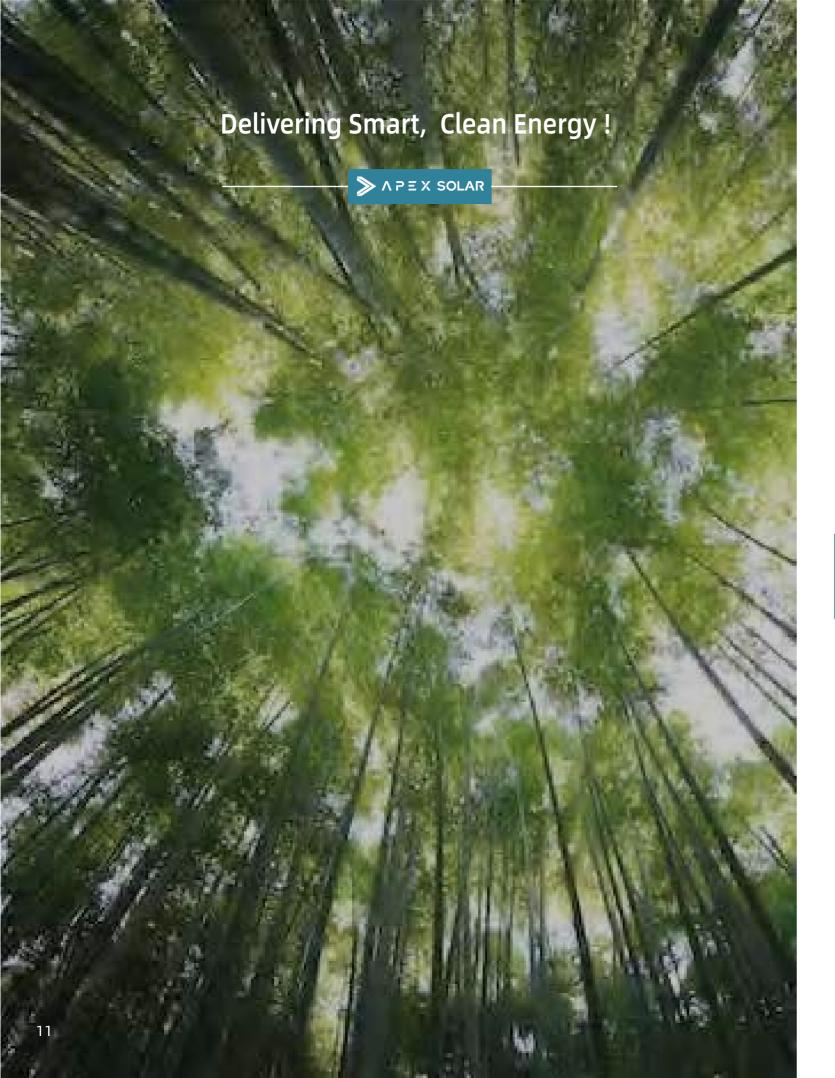


Technical Specifications



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 × W ×H)(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					
Humidity	<60%(No condensed water)					
Pollution Degree	3					
Over Voltage Category	II					
Cooling Type	Natural cooling					
Case Material	Aluminium alloy					
IP rating	IP 65					
Effciency	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						



Monitoring System



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





























