

YTEP



**SOLAR ENERGY
GENERATION &
STORAGE SYSTEMS
FOR OFF-GRID AREAS**

COMPANY PROFILE

YITENG



Yiteng Electric is a direct factory that Develops, Designs and manufactures innovative solar home power system products and portable power station to help people improve their life quality with green solar energy.



Yiteng is operating according to ISO 9001, all products meet the criteria of key regional standards: CE, IEC, ETL, EMC, UL 94 etc. In the following catalogue, we present our COMPLETE solar home power solution for off/on grid areas.

Our Mission: To revolutionize lives with innovative solar power solutions, enhancing quality of life through sustainable energy.

Our Vision: To lead the global renewable energy industry by providing cutting-edge solar home power systems, empowering communities worldwide.



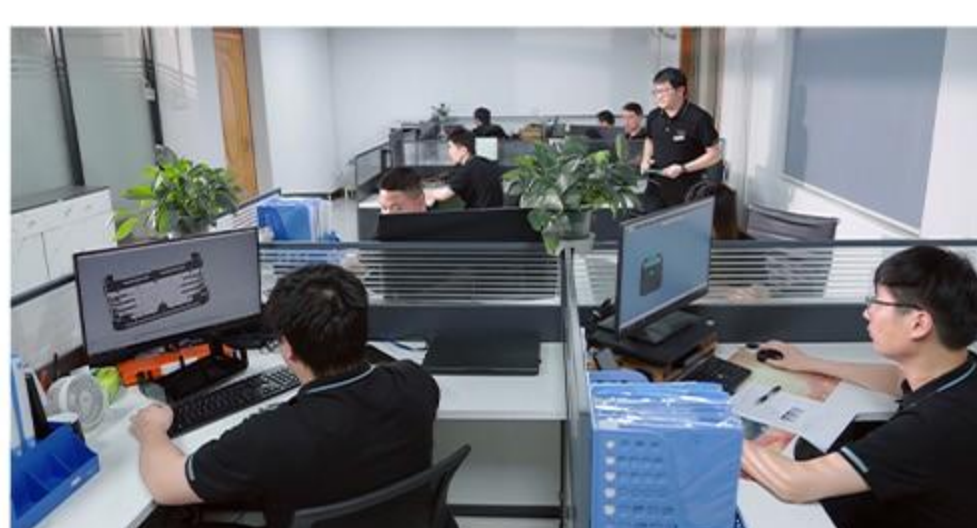
Accembly Workshop



Injection Workshop



SMT Workshop



R&D Office

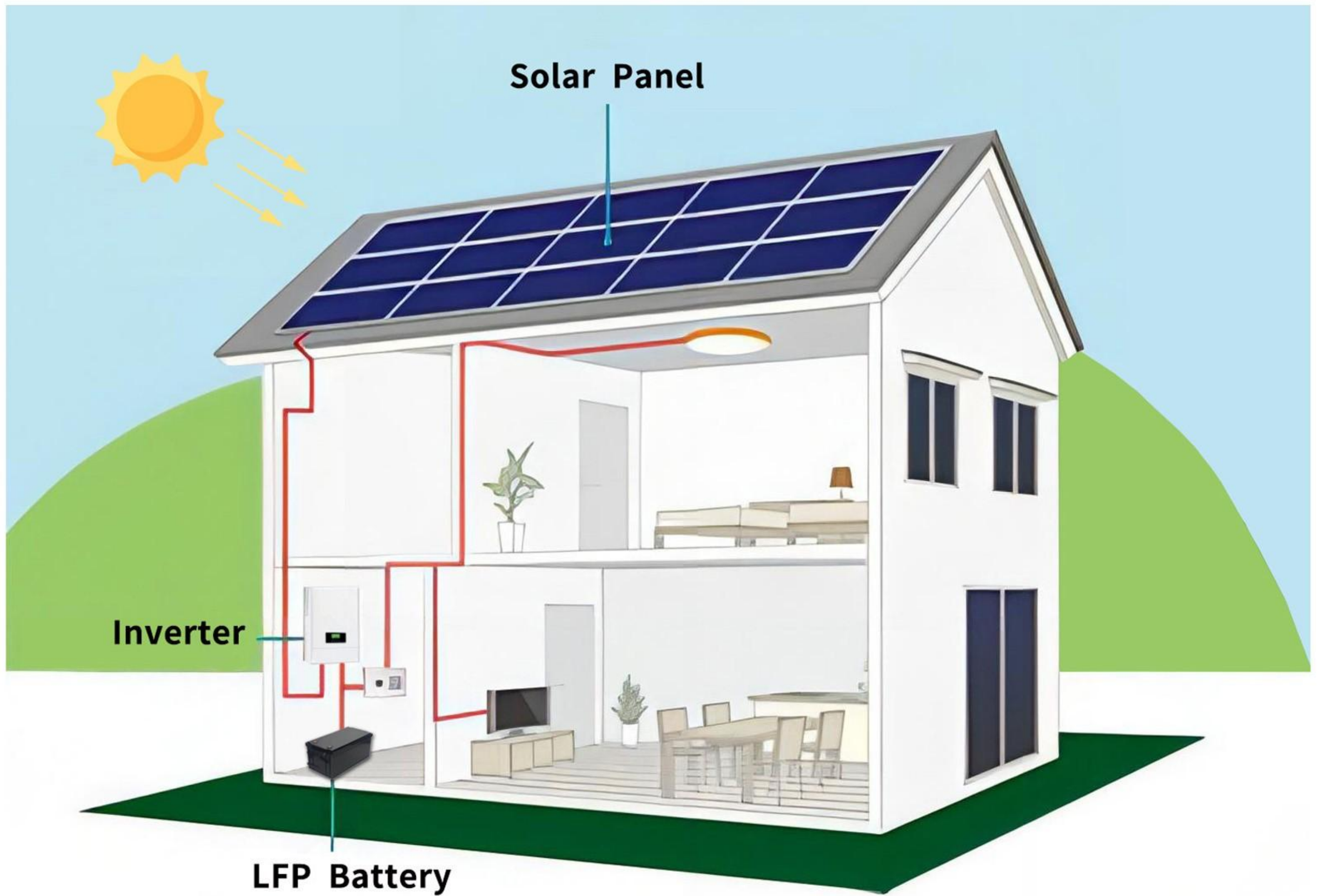


Laboratory

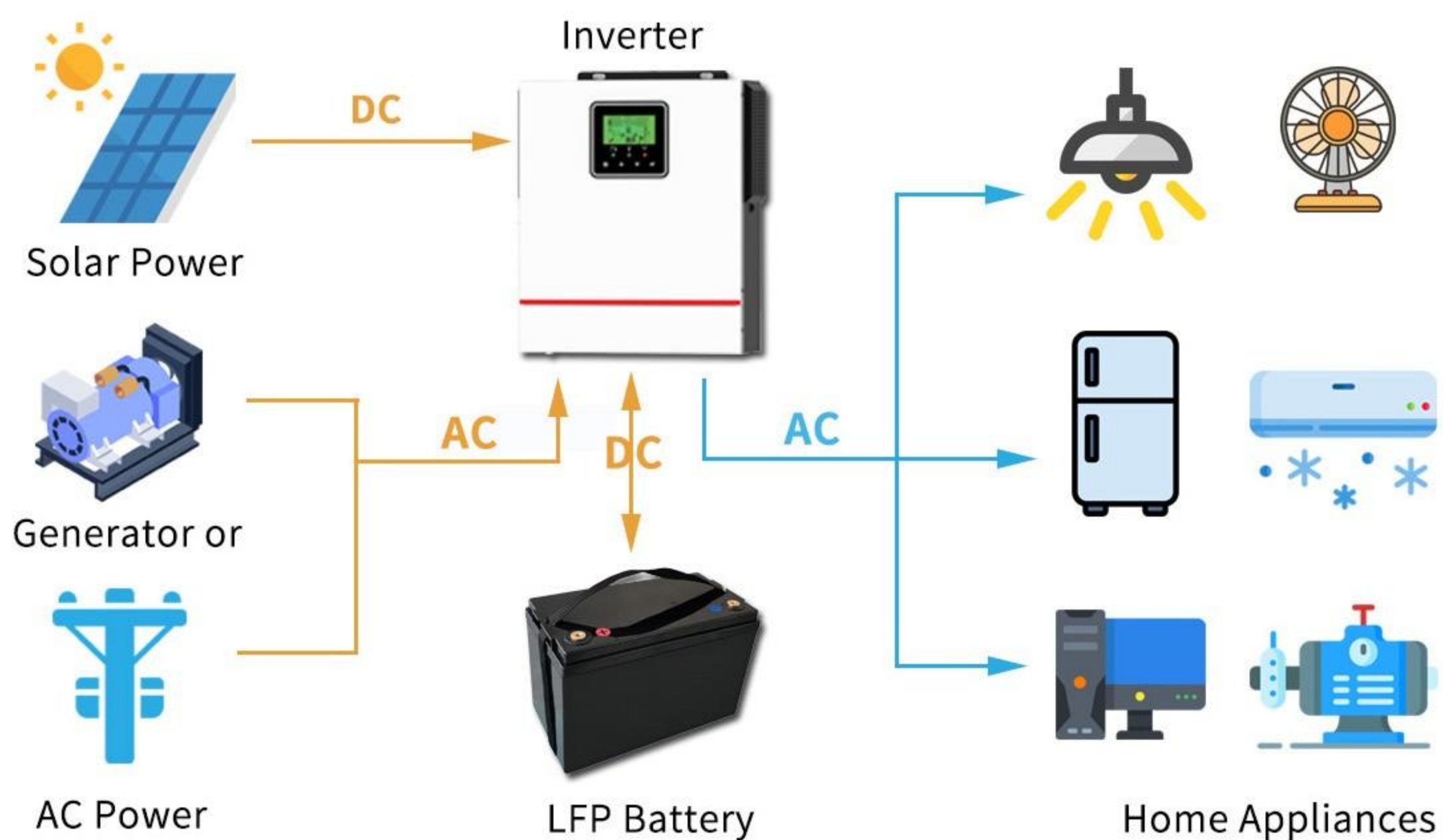


Test Equipment

SOLAR ENERGY GENERATION & STORAGE SYSTEMS

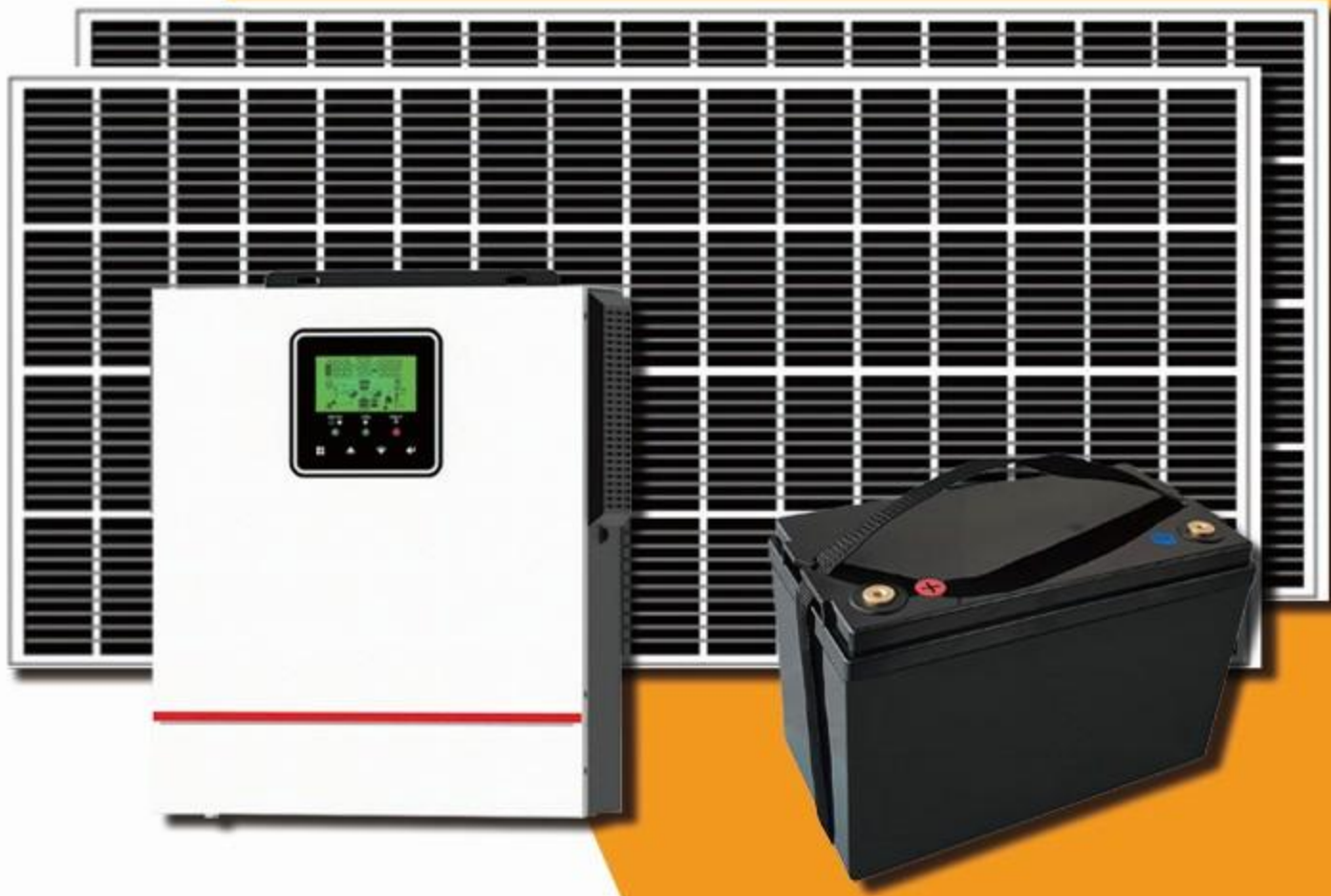


System Working Diagram



RECOMMEND PACKAGES

Y T E N



ITEM CODE	YT-NMS-1000-12	YT-NMS-1500-24
Rated output power	1000W	1500W
Solar panel	32V 300W*1 or 32V 300W*2	32V 300W*2 or 32V 300W*4
MPPT	Yes	
Battery	LFP 12.8V 87Ah/1113.6Wh	LFP 22.4V 87Ah/1948.8Wh
Battery lifespan	5000 (70%DOD, 25°C)	
Paygo	Available	Available
OTA	USB	USB
Transfer	Automatic	
Warranty	3 years	

YT-NMS-1000-12



SMALL FAMILY
HOUSE

Home lighting 60W
15.5h



32" TV 60W
15.5h



Laptop 65W
17h



Speaker 70W
15.9h



Electric cooker 400W
2.7h



Table fan 50W
22.2h



Refrigerator 200W
5.5h



Standing fan 60W
15.5h



YT-NMS-1500-24



SMALL FAMILY
HOUSE

Home lighting 60W
32.4h



32" TV 60W
32.4h



Laptop 65W
29.9h



Speaker 70W
27.8h



Electric cooker 400W
4.8h



Table fan 50W
38.9h



Refrigerator 200W
9.6h



Ceiling fan 75W
25.9h



Electric mixer 300W
6.4h



Standing fan 60W
32.4h



* Above information just for reference only

RECOMMEND PACKAGES

Y T E N

ITEM CODE	YT-NML-2000-12	YT-NML-3200-24
Rated output power	2000W	3200W
Solar panel	30V 450W*2 or 30V 450W*4	30V 450W*3 or 30V 450W*6
MPPT	Yes	Yes
Battery	LFP 12.8V 206Ah/2636.8Wh	LFP 22.4V 150Ah/3360Wh
Battery lifespan	5000 (70%DOD, 25°C)	
Paygo	Available	
OTA	USB	USB
Transfer	Automatic	
Warranty	3 years	



YT-NML-2000-12

 MEDIUM FAMILY HOUSE	Home lighting 70W 37.6h	Laptop 65W 40.5h	Electric cooker 400W 6.5h	Electric kettle 1000W 2.6h	Air conditioner 1000W 2.6h
					
	32" TV 60W 43.9h	Speaker 70W 37.6h	Table fan 50W 52.7h	Standing fan 60W 43.9h	Refrigerator 200W 13.1h
					

YT-NML-3200-24

 MEDIUM FAMILY HOUSE	Home lighting 100W 33.6h	Laptop 65W 51.6h	Electric cooker 400W 8.4h	Refrigerator 200W 16.8h	Air conditioner 1000W 3.4h
					
	32" TV 60W 56h	Speaker 70W 48h	Table fan 50W 67.2h	Ceiling fan 75W 44.8h	Electric pump 600W 5.6h
					

* Above information just for reference only

RECOMMEND PACKAGES



ITEM CODE	YT-EOV05S-220	YT-EOV10S-220	YT-EOV15S-220	YT-EOV20S-220
Rated output power	5000W			
Solar panel	500W*4	500W*6	500W*8	500W*10
MPPT	Yes			
Battery	LFP 5.12KWh*1	LFP 5.12KWh*2	LFP 5.12KWh*3	LFP 5.12KWh*4
Battery lifespan	6000 (80% DOD, 25°C)			
Paygo	No			
OTA	WIFI			
Transfer	Automatic			
Warranty	3 years			

YT-EOV05S-220

 BIG FAMILY HOUSE OR SMALL COMPANY	Home lighting 120W 42.6h	Laptop 65W 78.7h	Electric cooker 400W 12.8h	Electric kettle 2000W 25.6h	Air conditioner 2500W 2h
					
	32 "TV 60W 85.3h	Spearker 70W 73.1h	Table fan 50W 102.4h	Standing fan 60W 85.3h	Refrigerator 200W 25.6h
					

YT-EOV20S-220

 BIG FAMILY HOUSE OR SMALL COMPANY	Home lighting 200W 102.4h	Laptop 65W 315h	Electric cooker 400W 51.2h	Refrigerator 200W 102.4h	Air conditioner 2500W 8.1h
					
	32 "TV 60W 341h	Spearker 70W 292h	Table fan 50W 409h	Ceiling fan 75W 273h	Electric pump 1200W 17h
					

* Above information just for reference only

OFF GRID SOLAR INVERTER

VICTOR NMS SERIES



FEATURES

- Pure sine wave solar inverter
- Built-in 40A MPPT solar charger
- PV input voltage range 20-150VDC (for 1000W), 30-150VDC (for 1500W)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Meet rich customized demands
- Solar energy is provided directly to the load first

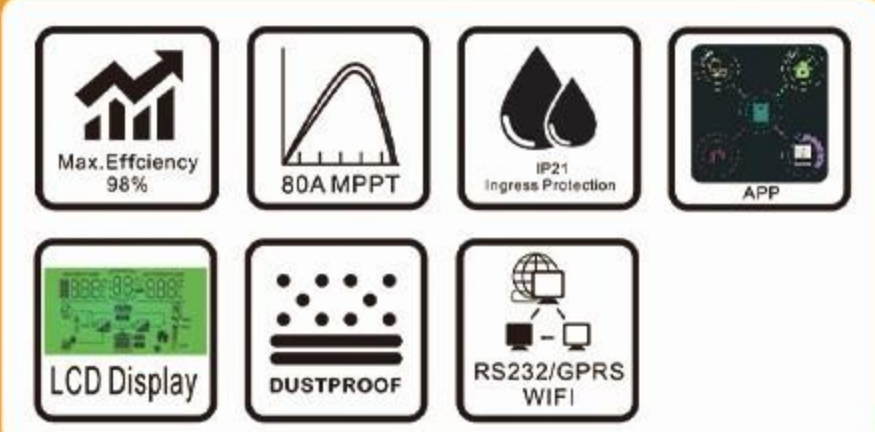


OFF GRID SOLAR INVERTER

VICTOR NML SERIES

FEATURES

- Pure sine wave solar inverter
- WIFI & GPRS available for IOS and Android
- Built-in 80A MPPT solar charger
- High PV input voltage range (30-400VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Meet rich customized demands
- Compatible with lithium battery
- Solar energy is provided direct to the load first



MODEL	VICTOR NMS-1000-12	VICTOR NMS-1000-12	VICTOR NML-2000-12	VICTOR NML-3200-24
RATED POWER	1000W/1000VA	1500W/1500VA	2000W/1600VA	3200W/3000VA
AC INPUT				
Voltage	230VAC			
Selectable Voltage Range	170~280VAC(For personal computers)/90~280VAC(For home appliances)			
Frequency Range	50Hz/60Hz(Auto sensing)			
AC OUTPUT				
AC Voltage Regulation	230VAC±5%			
Surge Power	2000VA	3000VA	4000VA	6400VA
Efficiency(Peak)PV to INV	98%			
Efficiency(Peak)Battery to INV	94%			
Transfer Time	10ms		10ms(For personal computer), 20ms for home appliances	
BATTERY				
Battery Voltage	12VDC	24VDC	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC	13.5VDC	27VDC
Overcharge Protection	16VDC	32VDC	16VDC	33VDC
SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
Maximum PV Array Power	600W	1200W	3000W	3000W
MPPT Range@ Operating Voltage	20-150VDC	30-150VDC	30-400VDC	
Maximum PV Array Open Circuit Voltage solar	150VDC		400VDC	
Max Input Current	/	/	1/13A	
Maximum Solar Charging Current	40A		80A	
Maximum AC Charging Current	40A		60A	
Maximum Solar+AC Charging Current	80A		80A	
PHYSICAL				
Dimension, D*W*H(mm)	290*240*91		357*273*95	
Carton Dimension, D*W*H(mm)	340*295*145		435*335*165	
Net Weight(kgs)	3.5	3.6	4.6	4.8
Gross Weight(kgs)	4	4.2	5.6	5.8
Communication interface	/	/	RS232/GPRS/WIFI	
ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	-10°C~50°C			
STANDARD				
Compliance Safety	CE			



EOV SERIES

Solar Energy Storage System



YT-EOV05S-220

YT-EOV15S-220

YT-EOV10S-220

YT-EOV20S-220



220V



5.12kWh



1-4 units



Wi-Fi



IP20



EASY TO UPSCALE

- Up to 4 batteries in parallel expand to 20.48kWh
- Up to 2 systems in parallel with double storage & output



EASY TO INSTALL

- No matching and commissioning required, ready to install
- Plug-and-play, eliminate the clutter of wires



USER FRIENDLY

- Get started quickly and use it instantly
- Min. width of just 13cm, saving space in the home



INTELLIGENCE

- Support Wifi view real-time data through APP
- Large LCD screen with real-time data



SAFETY

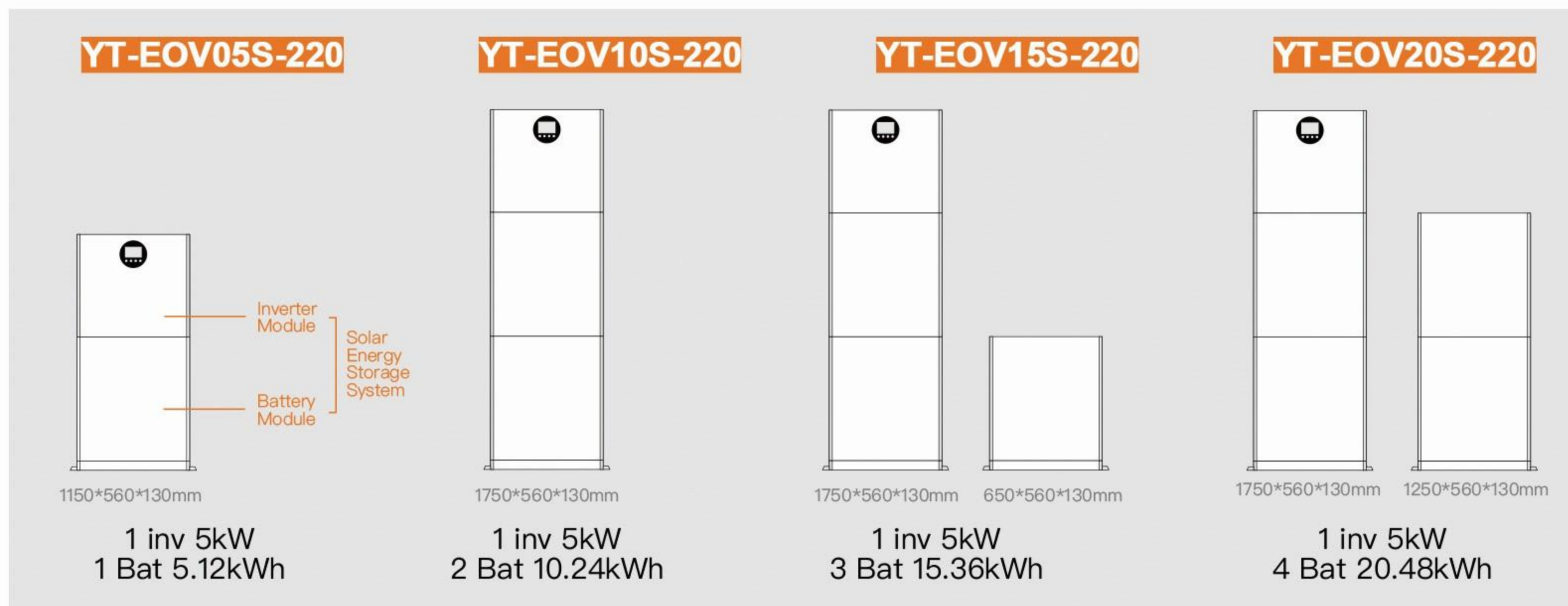
- High quality lithium iron phosphate cells
- Proven Li-ion battery management solutions



DESIGNED FOR FAMILIES

- Support Off-grid/Hybrid/On-Grid output
- Multiple charge and discharge modes available

UP TO 2 SYSTEMS IN PARALLEL CONNECTION, GAINS DOUBLE ENERGY STORAGE AND POWER OUTPUT



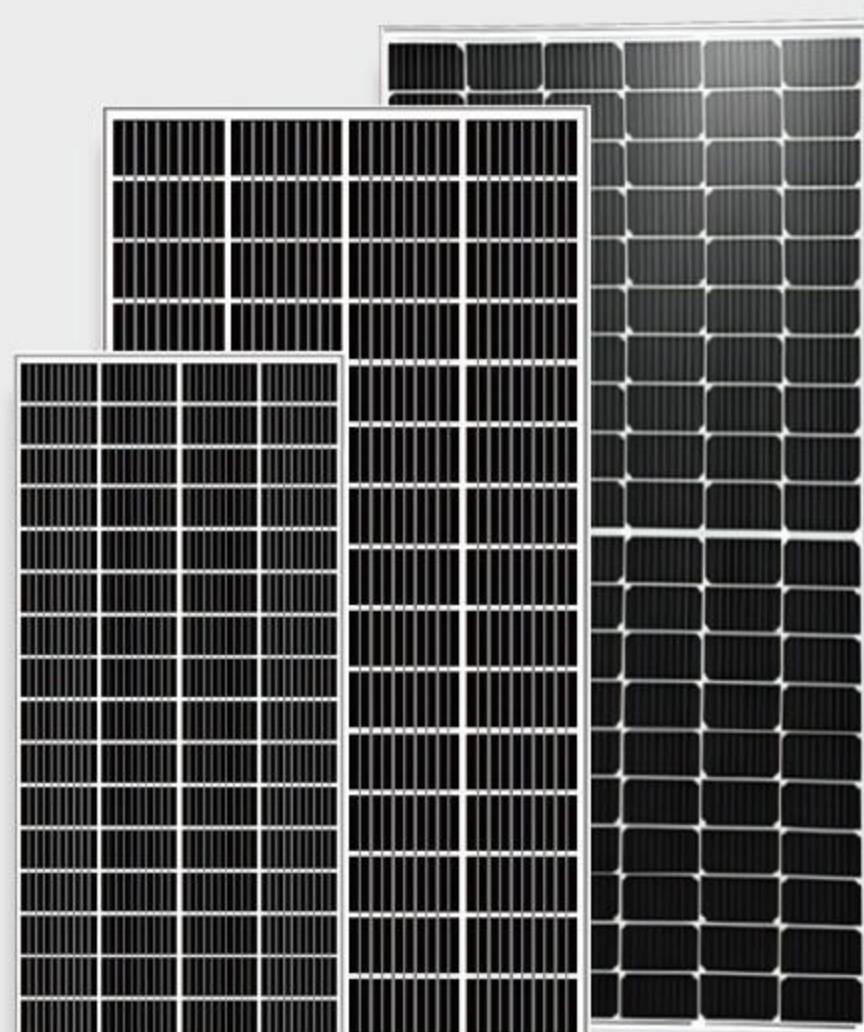
INVERTERMODULE	INVERTERMODULE	CANBESET
Output		
Rated Output Power	5,000W	
Max. Peak Power	10,000VA	
Load Capacity of Motor	4HP	
Wave Form	Pure Sine Wave	
Rated Output Voltage	220Vac (single-phase)	✓
Max. Parallel Capacity	2 units (up to 10kW)	✓
Output Mode	Off-grid/Hybrid/On-grid	✓
SOLAR INPUT		
Solar Charge Type	MPPT	
Max. Solar Array Power	5,500W	
Max. Solar Open Circuit Voltage	500Vdc	
GRID / GENERATOR INPUT		
Input Voltage Range	90~280Vac	
Bypass Overload Current	40A	
BATTERY CHARGING		
Max. Solar Charging Current	100A	✓
Max. Grid/Generator Charging Current	60A	✓
GENERAL		
Dimension	500*560*130mm	
BATTERYMODULE	YT-EOV05B	CANBESET
Battery Power	5.12kWh	
Rated Voltage	51.2V	
Rated Capacity	100Ah	
Battery Type	LFP	
Cycling Lifespan	6000 (80%DOD,0.5C,25°C)	
Max. Parallel Capacity	4 units (up to 20.48kWh)	✓
Dimension	600*560*130mm	
Standard	UN38.3,MSDS,UL1973, IEC62619,IEC61000 RoHS	







LFP BATTERY



The battery plays a crucial role in a solar home storage system, enabling the capture and storage of excess solar energy for later use. It ensures uninterrupted power supply, maximizes self-consumption, and provides backup during periods of low sunlight or power outages, enhancing energy reliability and independence.

Model name	YT-LFP-12V-87Ah	YT-LFP-24V-87Ah	YT-LFP-12V-200Ah	YT-LFP-24V-150Ah
Battery type	LiFePo4			
BMS	Short-circuit, overvoltage, over charging, over discharging, over temperature protection			
Paygo	Available			
ELECTRICAL				
Nominal voltage (V)	12.8	22.4	12.8	22.4
Nominal capacity (Ah)	87	87	206	150
Energy (Wh)	1113.6	1948.8	2636.8	3360
Resistance (mΩ)	0.23	0.23	0.25	0.24
Efficiency (%)	0.95	0.95	0.95	0.95
Self-discharge (%)	3% Per month			
Max batteries in series (No.)	4	4	4	2
Max batteries in parallel (No.)	5	5	5	5
Design life (Years)	3	3	3	3
Cycle life	5000 (70% DOD, 25°C)			
CHARGE				
Recommended charge current (A)	44	44	103	75
Max charge current (A)	87	87	206	150
Recommended charge voltage (V)	15.4	26.95	15.4	26.95
PCM charge voltage cut-off (V)	16	28	16	28
DISCHARGE				
Min continuous discharge current (A)	0.05	0.05	0.05	0.05
Peak discharge current (A)	87	87	200	150
PCM discharge current cut-off (A)	100	100	220	180
PCM discharge voltage cut-off (V)	11	19.25	11	19.25
Recommended low voltage	8	14	14	14
Reconnect voltage (V)	10	17.5	10	17.5
TEMPERATURE				
Discharge temperature (°C)	-20~55			
Charge temperature (°C)	0~45			
Storage temperature (°C)	-15 ~65			
MECHANICAL				
Overall dimensions (L*W*Hmm)	260*168*211	330*170*220	520*240*220	520*240*220
Weight (KG)	22.04	40.57	24.04	40.57
Type of cell	Square			
Case material	ABS			
Enclosure protection (IP)	IP54			
Terminal type	Ring terminal			



- 
Multi Busbar Solar Cell
 Stronger current collection ability, Special circuit design with much lower hot spot temperature;
- 
Anti PID
 Excellent PID resistance at 96 hours (85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment;
- 
Anti-Crack
 Excellent anti microcracking performance with more balanced interior stress;
- 
Module efficiency up to 20.8%
 Half cell structure brings low resistance characteristic, higher lifetime generating capacity, simultaneously lower annual power attenuation;
- 
Low-Light Performance
 Stronger current collection ability, Special circuit design with much lower hot spot temperature;
- 
Strength and Durability
 Certified for 5400 Pa snow and 2400 Pa Wind loads test;

The solar panel serves as the backbone of a solar home storage system, harnessing sunlight to generate clean and renewable energy. It converts solar radiation into electricity, providing a sustainable and environmentally friendly power source that reduces reliance on conventional energy and lowers carbon footprint.



ELECTRICAL SPECIFICATIONS						
Module type	YT-60M-200		YT-64M-300		YT-144M-450	
Testing condition	STC	NOCT	STC	NOCT	STC	NOCT
Rated output (Pmp/Wp)	200	151	300	226	450	335
Rated voltage (Vmp/V)	34.2	30.4	36.4	32.5	34.17	31.84
Rated current (Imp/A)	5.85	4.97	8.25	6.95	13.17	10.52
Open circuit voltage (Voc/V)	40.8	34.48	42.6	38.1	41.27	38.96
Short circuit current (Isc/A)	6.15	5.22	8.73	7.38	13.85	11.19
Module efficiency (%)	20.65%		20.65%		20.8%	
Power tolerance (W)	0~+5		0~+5		0~+5	
MECHANICAL SPECIFICATIONS						
Cell type	MONO 182*91mm		MONO 210*105mm		MONO 182*91mm	
No. of cells	60 (4*15)		64 (4*16)		120 (6*20)	
Dimension	1430*780*30mm		1750*880*35mm		1910*1134*35mm	
Weight	12kg		17kg		24.5kg	
Glass	3.2mm, low iron tempered glass		3.2mm, low iron tempered glass		3.2mm, low iron tempered glass	
Frame	Anodized aluminum alloy		Anodized aluminum alloy		Anodized aluminum alloy	
Junction Box	IP68.3 diodes		IP68.3 diodes		IP68.3 diodes	
Output cables	4mm ² , length 900mm or customized		4mm ² , length 900mm or customized		4mm ² , length 900mm or customized	
Connector type	MC4 compatible		MC4 compatible		MC4 compatible	
TEMPERATURE CHARACTERISTICS						
NOCT temperature	44°C±2°C		44°C±2°C		44°C±2°C	
Temperature coefficient (Pmax)	-0.36%/C		-0.36%/C		-0.36%/C	
Temperature coefficient (Voc)	-0.28%/C		-0.28%/C		-0.28%/C	
Temperature coefficient (Isc)	0.05%/C		0.05%/C		0.05%/C	
MAXIMUM RATINGS						
Max system voltage (IEC)	1500VDC (IEC)		1500VDC (IEC)		1500VDC (IEC)	
Snow/Wind	5400Pa/2400Pa		5400Pa/2400Pa		5400Pa/2400Pa	
Operating temperature	-40°C~+85°C		-40°C~+85°C		-40°C~+85°C	
Max series fuse rating	20A		20A		20A	

Standard Test Condition (STC): Irradiance 1000W/ m², Cell Temperature 25°C, AM1.5

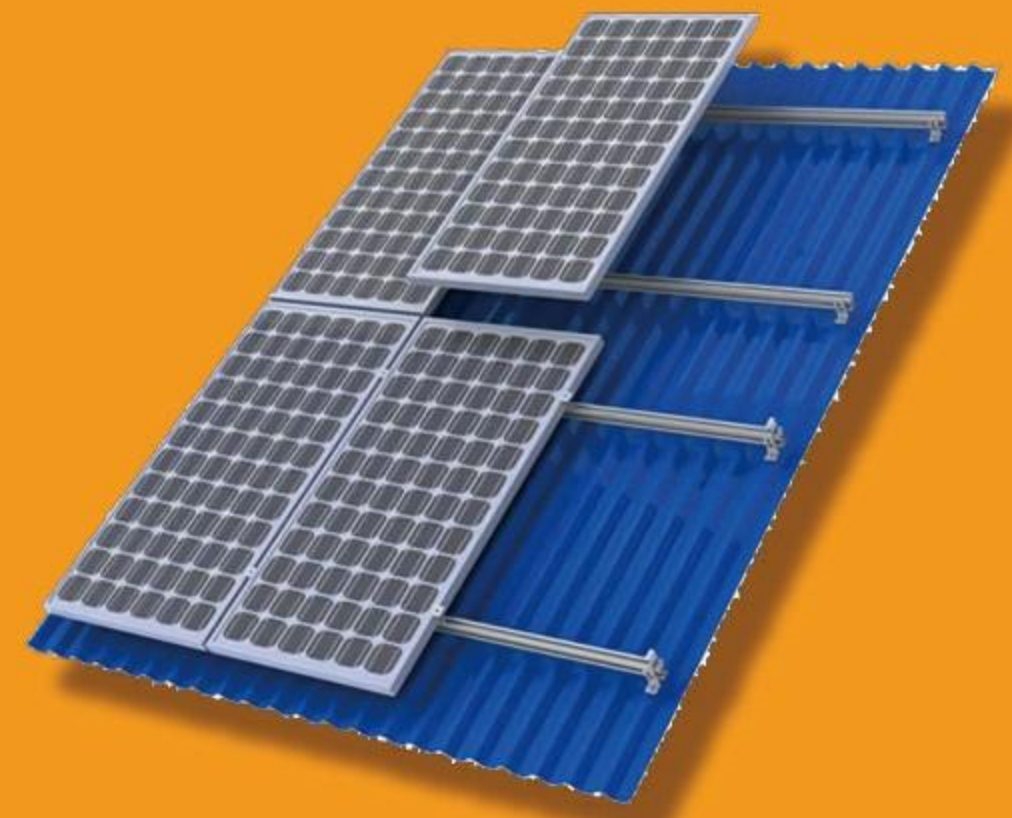
Nominal Module Operating Temperature (NOCT): Irradiance 800W/ m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

PV MOUNTING KIT & OTHER ACCESSORY



The PV Mounting kit is essential for a solar home storage system as it securely and efficiently installs the solar panels, ensuring optimal positioning and maximum sunlight absorption.

Rail	L-Foot kit	End clamp kit	Mid clamp kit
			



SPECIFICATION:

Wind speed	Snow load	Standard	Degree	Arrangement	Warranty
<60m/s	1.4KN/M2	AS1170.2	0	Vertical or Horizontal	10 years

Note: By different section of metal roof, we can also provide types of brackets.

PV CABLE AND CONNECTORS

PV CABLES	PV CABLE WITH CONNECTOR	1 TO 3 BRANCHING CABLE
		

PAYGO SERVICE

Paygo (Pay as you go) system provides an affordable and flexible way for individuals and households with limited access to electricity to meet their energy needs. It only need less deposit payment, making energy solutions more accessible to a wider population.

HOW IT WORK



BENEFITS OF THE PAYGO SYSTEM

1. Affordable access to clean energy.
2. Flexibility in payment options.
3. Increased energy affordability for low-income households.
4. Elimination of upfront costs for solar power systems.

PAYMENT METHOD

ONE TIME PAYMENT	DOWN PAYMENT	MONTHLY PAYMENT	PAYMENT PERIOD	TOTAL COST
100%	20%	8%	18	100%
100%	20%	11%	12	100%

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