

2024/2025

# Residential ESS Solution

Smart Green Home Made Easy



- On-grid Solar Inverter
- Lithium Battery Pack
- Hybrid Solar Inverter
- Gel Battery
- Off-grid Solar Inverter
- Solar Power System

## ZHEJIANG ANBO NEW ENERGY CO., LTD.

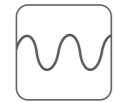
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# Residential On Grid Solar Inverter



On-grid



Pure Sine Wave



MPPT



Communication



MODEL		ASI-PH50-12000TM	ASI-PH50-15000TM
OUTPUT (AC)	Rated AC output power	12000W	15000W
	Max.AC apparent power	13200VA	16500VA
	Max.output current	19A	23.8A
INPUT DATA	Max.recommended PV power	14400W	18000W
	Max.DC voltage	1000V	
	Start voltage	160V	
	Nominal voltage	600V	
	MPPT voltage range	200V-1000V	
	Max.input current	21A / 11A	
	Number of independent MPP trackers / strings per MPP tracker	2/2+1	
	DC connection	H4 / MC4	
EFFICIENCY	Max.efficiency	98.4%	
	Euro weighted efficiency	98%	
	MPPT efficiency	99.5%	
	Protection devices	DC reverse polarity protection , Output over current protection, Output overvoltage protection-varistor, Integrated DC switch, Ground fault monitoring, Integrated all-pole sensitive leakage current monitoring unit	
GENERAL DATA FEATURES	Dimension(W/H/D)(mm)	500*428*200	
	Weight (kg)	24.8	
	Operation temperature range	-25 C - +60 C with derating above 45 C	
	Noise emission(typical)	≤35dB(A)	
	Altitude	3000m	
	Self-consumption (night)	< 1W	
	Topology	Transformerless	
	Cooling concept	Natural	
	Environmental protection Rating	Ip65	
Relative humidity	0-100%		
FEATURES	AC connection	connector	
	Display	LED	
	Interfaces:USB/WI-FI/RS485/GPRS	yes/yes/yes/opt	
	Warranty	Standard 5 years / 10 years (opt.)	
	Certificates and approvals	CE / IEC62109 / EN50549-1	

# Commercial On Grid Solar Inverter



On-grid



Pure Sine Wave



MPPT



Communication



Model		ASI-36KTL	ASI-40KTL	ASI-50KTL	ASI-60KTL	ASI-70KTL	ASI-100KTL	ASI-110KTL		
DC Input	Max. DC Voltage	1100V								
	Starting Voltage	200V								
	MPPT Voltage Range	200V~1000V								
	MPPT Range Full Load	375V~850V		450V~850V		520V~850V		550V~850V		
	Max Current / MPPT	45A / 45A	54A / 54A	60A / 60A	45A / 45A / 45A / 45A			65A / 65A / 65A / 65A		
	Max. short-circuit current	67.5A / 67.5A	81A / 81A	90A / 90A	60A / 60A / 60A / 60A			100A / 100A / 100A / 100A		
	Number of DC Inputs	3 / 3		5 / 4		3 / 3 / 3 / 3			5 / 5 / 5 / 5	
	MPPT Number	2			4					
AC Output	Rated Output Power	36kW	40kW	50kW	60kW	70kW	100kW	110kW		
	Max. Active Power	39.6kW	44kW	55kW	66kW	77kW	110kW	121kW		
	Rated Output Voltage	400V (Three Phase) (380V optional)								
	AC Voltage Range	300V~520V								
	Rated Output Current	52.0A	57.7A	72.2A	86.5A	101A	144A	158.8A		
	Max. Output Current	57.2A	63.5A	79.4A	95.3A	111A	158.8A	174.7A		
	Rated Grid Frequency	50Hz / 60Hz								
	Power Factor	0.8 (Leading) ~ 0.8 (Lagging)								
	THD	<3%								
	Max. Efficiency	98.97%	98.95%	99.03%	98.85%	99.00%				
System Parameters	European Efficiency	98.45%		98.51%			98.52%			
	AC/DC SPD	Support								
	PV String Fault Detection	Support								
	RCD	Support								
	AC Overcurrent Protection	Support								
	Cooling System	Smart Air Cooling								
	Operating Temperature	-40°C ~ +60°C								
	Protection Degree	IP65								
	Standby Power Consumption	<1W					<5W			
	Topology Structure	Transformerless								
	Operating Altitude	5000m (Derating above 4000m)								
	Display	LED + APP								
	Communication	RS485 / WiFi / GPRS/ 4G								
	DC & AC Terminator	OT/ DT								
	Certification	IEC61683 / IEC62109 / IEC61000 / IEC62116 / IEC61727 / CQC / CGC								
Optional	WiFi&GPRS&4G Module / Anti-PID Module									
Mechanical Parameters	Dimensions (W*H*D)	520*520*265mm			705*650*285mm		800*680*330mm			
	Weight	≤44kg			≤75kg		≤89kg			

# On/off-grid Solar Storage Inverter



## Efficiency

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 22A PV input current for high power PV module

## Safety

- 360 degrees of security from hardware to software
- IEC safety approvals

## All in one

- Up to 100A hybrid charging current

## Reliable

- Outputs high quality pure sine wave AC power
- Up to 6 units in parallel connection

## User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

## Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

### Application scenario



House



Farm



Telecom



Countryside



Island







Pasture

MODEL	ASI-YP-5K-S	ASI-EI-10K-SP
<b>INVERTER OUTPUT</b>		
Rated Output Power	5,000W	10,000W
Max.Peak Power	10,000VA	20,000VA
Rated Output Voltage	230Vac ( L/N/PE single-phase )	230Vac, single-phase / three-phase (3 units in parallel)
Load Capacity of Motors	4HP	6HP
Rated AC Frequency	50/60Hz	
Waveform	Pure sine wave	
Switch Time	10ms ( typical )	
Parallel Capacity	1-6 units ( single/three phase )	
<b>BATTERY</b>		
Battery Type	Li-ion / Lead-acid / User-define	
Rated Battery Voltage	48Vdc	
Voltage Range	40 ~ 60Vdc	
Max.MPPT Charging Current	100A	200A
Max.Mains Charging Current	60A	120A
Max.Hybrid Charging Current	100A	200A
<b>PV INPUT</b>		
Num. of MPPT	1	2
Max.PV array power	5,500W	5,500W+5,500W
Max.input current	22A	22A+22A
Max.Voltage of Open Circuit	500Vdc	500Vdc+500Vdc
MPPT Voltage Range	120 ~ 450Vdc	
<b>MAINS / GENERATOR INPUT</b>		
Input Voltage Range	90-280Vac	
Frequency Range	50/60Hz (auto-detect)	
Bypass Overload Current	40A	
<b>EFFICIENCY</b>		
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	92%	
<b>GENERAL</b>		
Dimensions	446.9*350*133mm	670*440*240mm
Weight	13kg	37kg
Protection Degree	IP20, indoor only	IP65
Operating Temperature Range	-10~55℃	
Noise	<60dB	
Cooling Method	forced air cooling with adjustable air speed	
Warranty	2 years	5 years
<b>COMMUNICATION</b>		
Embedded Interfaces	RS485 / CAN / USB / Dry contact	
External Modules ( Optional )	Wi-Fi / GPRS	
<b>CERTIFICATION</b>		
Safety	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	



# Wall-mounted Off-grid Solar Inverter

-   
 Pure Sine Wave
-   
 MPPT
-   
 RS485/232  
CAN
-   
 Wall-mounted

PARAMETER		
Model	ASI-PW3200	ASI-PW5000
Rated power	3200W	5000W
Standard voltage	24VDC	48VDC
Installation	Wall mount installation	
PV PARAMETER		
Working model	MPPT	
Rated PV input voltage	360VDC	
MPPT tracking voltage range	120-450V	
Max input voltage (VOC) at lowest temperature	500V	
Max input power	4000W	6000W
Number of MPPT tracking paths	1 Path	
INPUT		
DC input voltage range	21-30VDC	42-60VDC
Rated mains power input voltage	220/230/240VAC	
Grid power input voltage range	170~280VAC(UPS model)/120~280VAC(inverter model)	
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)	
OUTPUT		
Inverter	Output efficiency	94%
	Output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter model)
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)
Grid	Output efficiency	≥99%
	Output voltage range	Following input
	Output frequency range	Following input
Battery mode no-load loss	≤1%(At rated power)	
Grid mode no-load loss	≤0.5% Rated power(the charger of grid power doesn't work)	
BATTERY		
Battery type	Lead acid battey	Equalizing charging 13.8V Floating charging 13.7V (single battery voltage)
	Customized battery	The parameter can be set according to customers' requirement ( Use different types of battery by setting the panel)
Max mains charging current	60A	
Max PV charging current	100A	
Max charging current(Grid+PV)	100A	
Charging method	Three-stage (constant current, constant voltage, float charge)	
PROTECTED MODE		
Battery low voltage range	Battery low voltage protection value +0.5V (Single battery voltage)	
Battery voltage protection	Factory default: 10.5V (Single battery voltage)	
Battery over voltage alarm	Equal charging voltage +0.8V (Single battery voltage)	
Battery over voltage protection	Factory default: 17V (Single battery voltage)	
Battery over voltage recovery Voltage	Battery over voltage protection value -1V (Single battery voltage)	
Overload / short circuit protection	Automatic protection (battery mode), circuit breaker or fuse (Grid mode)	
Temperature protection	≥90 °C off output	
PERFORMANCE PARAMETERS		
Conversion time	≤4ms	
Cooling method	Intelligent cooling fan	
Working temperature	-10~40°C	
Storage temperature	-15~60°C	
Altitude	2000m(>2000m altitude need derating)	
Humidity	0~95% (No condensation)	
Product Size	420*290*110mm	460*304*110mm
Package Size	486*370*198mm	526*384*198mm
Net weight	8.5kg	9.5kg
Gross weight	9.5kg	10.5kg

# Rack or Cabinet

## Off-grid Solar Inverter



PARAMETER		
Model	ASI-PC3200	ASI-PC5000
Rated power	3200W	5000W
Standard voltage	24VDC	48VDC
Installation	Cabinet/ rack installation	
PV PARAMETER		
Working model	MPPT	
Rated PV input voltage	360VDC	
MPPT tracking voltage range	120-450V	
Max input voltage (VOC) at lowest temperature	500V	
Max input power	4000W	6000W
Number of MPPT tracking paths	1 Path	
INPUT		
DC input voltage range	21-30VDC	42-60VDC
Rated mains power input voltage	220/230/240VAC	
Grid power input voltage range	170~280VAC(UPS model)/ 120~280VAC(inverter model)	
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)	
OUTPUT		
Inverter	Output efficiency	94%
	Output voltage	220VAC±2%/ 230VAC±2%/ 240VAC±2%(Inverter model)
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)
Grid	Output efficiency	≥99%
	Output voltage range	Following input
	Output frequency range	Following input
Battery mode no-load loss	≤1%(At rated power)	
Grid mode no-load loss	≤0.5% Rated power(the charger of grid power doesn't work)	
BATTERY		
Battery type	Lead acid battey	Equalizing charging 13.8V Floating charging 13.7V (single battery voltage)
	Customized battery	The parameter can be set according to customers' requirement ( Use different types of battery by setting the panel)
Max mains charging current	60A	
Max PV charging current	100A	
Max charging current(Grid+PV)	100A	
Charging method	Three-stage (constant current, constant voltage, float charge)	
PROTECTED MODE		
Battery low voltage range	Battery low voltage protection value +0.5V (Single battery voltage)	
Battery voltage protection	Factory default: 10.5V (Single battery voltage)	
Battery over voltage alarm	Equal charging voltage +0.8V (Single battery voltage)	
Battery over voltage protection	Factory default: 17V (Single battery voltage)	
Battery over voltage recovery Voltage	Battery over voltage protection value -1V (Single battery voltage)	
Overload /short circuit protection	Automatic protection (battery mode), circuit breaker or fuse (Grid mode)	
Temperature protection	≥90 C off output	
PERFORMANCE PARAMETERS		
Conversion time	≤4ms	
Cooling method	Intelligent cooling fan	
Working temperature	-10~40°C	
Storage temperature	-15~60°C	
Altitude	2000m(>2000m altitude need derating)	
Humidity	0~95% (No condensation)	
Product Size	440*495*178mm	440*495*178mm
Package Size	486*370*198mm	526*384*198mm
Net weight	8.5kg	9.5kg
Gross weight	9.5kg	10.5kg

# Rack-mounted energy storage(Home/Industrial)

Pack modular design, strong universality, convenient installation, simple operation, independent maintenance, high reliability, safety, large space, conducive to ventilation and heat dissipation, is the main component of household power supply, lithium iron phosphate battery has a long life, enough stability, more security and other characteristics.



Safe



Easy Mounting



Independent Maintenance



Good Heat Dissipation



**LiFePO4**

**6000+ Cycles**

**5 year warranty**

Model	ALB-R-4850	ALB-R-48100	ALB-R-48150	ALB-R-48200
Standard Voltage	48VDC			
Voltage	37.5-54.75VDC			
Nominal Capacity	50Ah	100Ah	150Ah	200Ah
Rated Capacity	2.4kWh	4.8kWh	7.2kWh	9.6kWh
Communication Protocol	CAN / RS485 / WIFI / 4G / Blue Tooth			
Efficiency (at 0.5C)	98%			
Cell Self-Discharge	<5 % / Month			
Maximum Allowed Modules in Parallet	15 (36kWh)	15 (72kWh)	15 (108kWh)	15 (144kWh)
Depth of Discharge	Up to 100%			
Useful Life	8-10 Years			
Cycle Life	6000 (@ 80% DoD)			
Protection	Over temperature, overcurrent, short circuit, over-charging, over-discharging, Low voltage			
<b>Charge Specifications</b>				
Recommended Charge Current	25A	50A	50A	50A
Maximum Charge Current	50A	100A	100A	100A
Recommended Charge Voltage	54V	54V	54V	54V
Maximum Charge Voltage	54.75V	54.75V	54.75V	54.75V
<b>Discharge Specifications</b>				
Recommended Discharge Current	25A	50A	50A	50A
Maximum Discharge Current	50A	100A	100A	100A
Recommended Low Voltage Disconnect	41.25V			
Battery Low Voltage Protection	39.75V			
Battery Recovery Voltage	45V			
<b>Mechanical Specifications</b>				
Dimenstions:	484*410*120mm	484*410*178mm	484*590*178mm	484*590*178mm
Weight	24.5kgs	38.5kgs	59kgs	70.5kgs
Terminal Type	M6			
Case Material	Industrial Grade Iron			
Enclosure Protection	IP20			
Installation	Cabinet			
Cell Type Chemistry	LiFeP04			
<b>Compliance Specifications</b>				
Certifications	CE,FCC, CCC			
Shipping Classification	UN 38.3, UN 3480, Class 9			
<b>Temperature Specifications</b>				
Discharge Temperature	-20~65°C	-20~65°C	-20~65°C	-20~65°C
Charge Temperature	0~55°C	0~55°C	0~55°C	0~55°C
Storage Temperature	-20~45°C	-20~45°C	-20~45°C	-20~45°C

## Wall Mounted energy storage (Home)

Light and convenient household energy storage option, light weight, small size, integrated body design, plug and play, easy installation, more convenient space optimization energy storage scheme.



Long Life



Mobility



Space Saving



Home Appliance



**LiFePO4**

**6000+ Cycles**

**5 year warranty**

Model	ALB-W-48100	ALB-W-48150	ALB-W-48200
Standard Voltage	48VDC		
Voltage	37.5-54.75VDC		
Nominal Capacity	100Ah	150Ah	200Ah
Rated Capacity	4.8kWh	7.2kWh	9.6kWh
Communication Protocol	CAN / RS485 / WIFI / 4G / Blue Tooth		
Efficiency (at 0.5C)	98%		
Cell Self-Discharge	<5 % / Month		
Maximum Allowed Modules in Parallet	15 (72kWh)	15 (108kWh)	15 (144kWh)
Depth of Discharge	Up to 100%		
Useful Life	8-10 Years		
Cycle Life	6000 (@ 80% DoD)		
Protection	Over thermal protection, overcurrent, short circuit, over-charging, over-discharging, Low voltage		
<b>Charge Specifications</b>			
Recommended Charge Current	25A	50A	50A
Maximum Charge Current	50A	100A	100A
Recommended Charge Voltage	54V	54V	54V
Maximum Charge Voltage	54.75V	54.75V	54.75V
<b>Discharge Specifications</b>			
Recommended Discharge Current	25A	50A	50A
Maximum Discharge Current	50A	100A	100A
Recommended Low Voltage Disconnect	41.25V		
Battery Low Voltage Protection	39.75V		
Battery Recovery Voltage	45V		
<b>Mechanical Specifications</b>			
Dimenstions:	510*440*220mm	690*530*215mm	690*530*215mm
Weight	50kgs	70kgs	90kgs
Terminal Type	M6		
Case Material	Industrial Grade Iron		
Enclosure Protection	IP20		
Installation	Cabinet or Wall installation		
Cell Type Chemistry	LiFePO4		
<b>Compliance Specifications</b>			
Certifications	CE,FCC, CCC		
Shipping Classification	UN 38.3, UN 3480, Class 9		
<b>Temperature Specifications</b>			
Discharge Temperature	-20~65°C	-20~65°C	-20~65°C
Charge Temperature	0~55°C	0~55°C	0~55°C
Storage Temperature	-20~45°C	-20~45°C	-20~45°C



## Stacked energy storage (Home)

Integrated household appliance design is adopted, which is exquisite and beautiful and easy to install. Modular stack design, flexible matching of energy storage unit, capacity expansion on demand, integrated inverter, convenient and portable, strong mobility, saving household electricity costs.



Long Life



Mobility



Space Saving



Home Appliance

LiFePO4

6000+ Cycles

5 year warranty



Model	ALB-ESS-5K-5KWH	ALB-ESS-5K-10KWH	ALB-ESS-5K-15KWH	ALB-ESS-5K-20KWH	ALB-ESS-5K-25KWH
<b>stacked lithium battery</b>					
Single module capacity	5.12kwh				
Module number	1pcs	2pcs	3pcs	4pcs	5pcs
Total capacity	5.12kwh	10.24kwh	15.36kwh	20.48kwh	25.6kwh
Standard voltage	51.2V				
Working voltage	43.2V-57.6V				
Standard discharge current	100A	200A	300A	400A	500A
Standard charging current	50A	100A	150A	200A	250A
Suggested DOD	80%				
Humidity	20%-60%				
Installation	Stacked				
IP rating	IP20				
Communication	CAN/RS485/RS232(WIFI,bluetooth is optional and need extra cost)				
Product size/unit	550*500*185mm				
N.W./unit	40kgs				
<b>Battery Input</b>					
Battery type	LFP				
Rated Battery Input Voltage	48V ( Minimum Start up Voltage 44V)				
Hybrid Charging Maximum Charging Current	80A				
Battery Voltage Range	40VDC~60VDC ± 0.6VDC(Under voltage Warning/Shutdown Voltage/Over voltage Warning/Over voltage Recover y...)				
<b>Solar Input</b>					
Maximum PV Open-circuit Voltage	500vDC				
PV Working Voltage Range	120-500VDC				
MPPT Voltage Range	120-450VDC				
Maximum PV Input Current	18A				
Maximum PV Input Power	5200W				
Maximum PV Charging Current	80A				
<b>AC Input ( generator/grid )</b>					
Mains Maximum ChargingCurrent	60A				
Rated Input Voltage	220/230VAC				
Input Voltage Range	UPS Mains Mode: (170VAC~280VAC)±2% APL Generator Mode (90VAC-280VAC)±2%				
Frequency	50Hz/ 60Hz (Automatic Detection)				
Mains Charging Efficiency	>95%				
Switch Time (bypass and inverter)	10ms(Typical Value)				
Maximum Bypass Overload Current	40A				
<b>AC Output</b>					
Output Voltage Waveform	Pure Sine Wave				
Rated Output Voltage (VAC)	230VAC (200/208/220/240VAC)				
Rated Output Power (VA)	5000 (4350/4500/4800/5000 )				
Rated Output Power(W)	5000 (4350/4500/4800/5000 )				
Peak Power	10000VA				
On-load Motor Capacity	4HP				
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz				
Maximum Efficiency	>90%				
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode ≤25W (Manual Setup)				

## Backup Battery (Home/Industrial)

Lead-acid batteries are widely used, but because of their high maintenance costs, short battery life and great environmental pollution, they are gradually replaced by lithium ion batteries. Lithium iron phosphate battery with the same volume has higher energy density and lighter weight, which is the best alternative to lead acid.



Safe



Long Life



Light Weight



IP67



**LiFePO4**

**6000+ Cycles**

**5 year warranty**

Model	ALB-RE-1212	ALB-RE-3012	ALB-RE-5012	ALB-RE-10012	ALB-RE-13012	ALB-RE-20012	ALB-RE-10024	ALB-RE-10048
Capacity	12V12Ah	12V30Ah	12V50Ah	12V100Ah	12V130Ah	12V200Ah	24V100Ah	48V100Ah
Continuous Discharge Current	8A	15A	25A	50A	65A	100A	50A	50A
Peak Protection Current	16A	30A	50A	100A	130A	200A	100A	100A
Working Voltage	10-14.6V						20-29.2V	37.5-54.75V
Standard Voltage	12.8V						25.6V	48V
Continuous Work Current	8A	15A	25A	50A	65A	100A	50A	50A
Max Charge Voltage	14.6V						29.2V	54.75V
Suggested DoD Model	80%							
Size(mm)	155*99*94	195*133*171	229*138*208	256*165*210	330*172*215	521*238*218	345*190*245	520*267*220
Weight	1.5kgs	3.2kgs	4.5kgs	10kgs	13kgs	19kgs	22kgs	33kgs
Humidity	≤85%							
Cooling Type	Natural Cooling							
Ingress Protection	IP67							
Useful Life	8-10 Years							

# Gel batteries for solar energy storage

Anbosunny valve controlled sealed gel battery is a new type of high energy battery developed by using advanced technology. There is no free electrolyte and no acid mist overflow during normal using. It is easy to maintain and use. It can be widely used in solar energy, wind energy, telecommunication and communication systems, and uninterruptable power supply (UPS). The designed service life of the product is more than 5 years.

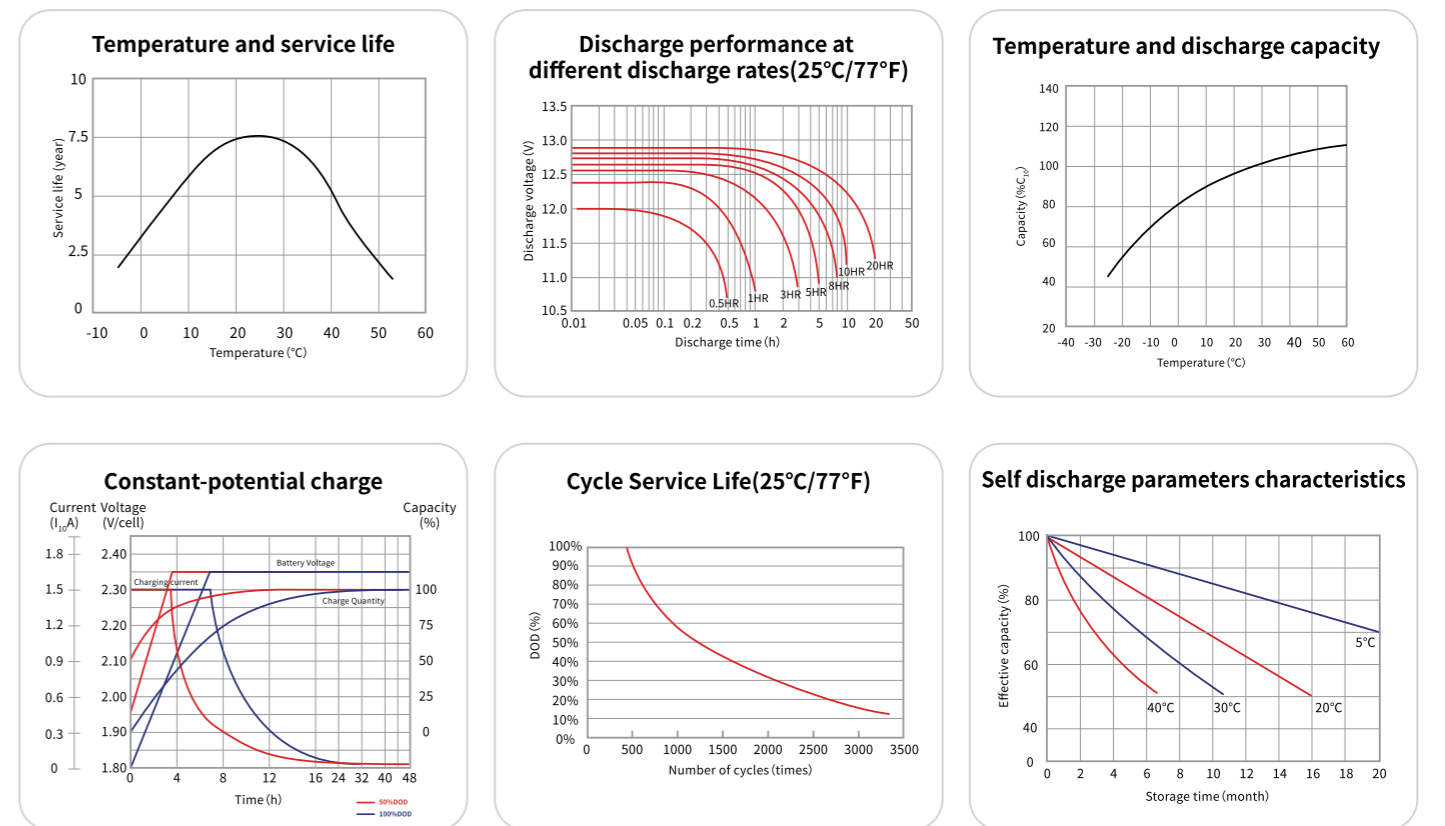


## Technology data

Model	AVC-6-7Ah	AVC-6-12Ah	AVC-6-17Ah	AVC-6-20Ah	AVC-6-24Ah	AVC-6-38Ah	AVC-6-50Ah	AVC-6-60Ah
Rated voltage	12V							
Capacity (10hr, 1.80V/cell, 25°C)	7Ah	12Ah	17Ah	20Ah	24Ah	38Ah	50Ah	60Ah
Weight	2.05Kg	3.45Kg	4.5Kg	5.4Kg	7.3Kg	11.5Kg	14.5Kg	18.5Kg
Size(LxWxHmm)	151x65x95	151x98x95	181x76x168	181x76x168	173x166x125	195x164x173	227x137x204	326x171x167
Max discharge current	30I <sub>10</sub> A(3min)							
Max charging current	≤0.25C <sub>10</sub>							
Self-discharge (25°C)	≤3%/月							
Recommended using temperature	15°C~25°C							
Cover Material	ABS							
Using temperature	Discharge: -45°C~50°C    Charge: -20°C~45°C    Storage: -30°C~40°C							
Charging Voltage (25°C)	floating charge: 13.5V-13.8V 、 equalizing charge: 14.1V-14.4V							
Charging Mode (25°C)	Float Charge: 2.275±0.025V/Cell 、 Temperature parameters: ±3mV/Cell°C 、 Cycle Charge: 2.45±0.05V/Cell 、 Temperature Compensation Coefficient: ±5mV/Cell°C							
Cycle life	100%DOD 572 times 、 50%DOD 1422 times 、 30%DOD 2218 times							
Capacity affected by temperature	105% @ 40°C 、 90% @ 0°C 、 70% @ -20°C							

## Performance characteristics

NOTE: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.



# Gel batteries for solar energy storage

Anbosunny valve controlled sealed gel battery is a new type of high energy battery developed by using advanced technology. There is no free electrolyte and no acid mist overflow during normal using. It is easy to maintain and use. It can be widely used in solar energy, wind energy, telecommunication and communication systems, and uninterruptable power supply (UPS). The designed service life of the product is more than 5 years.

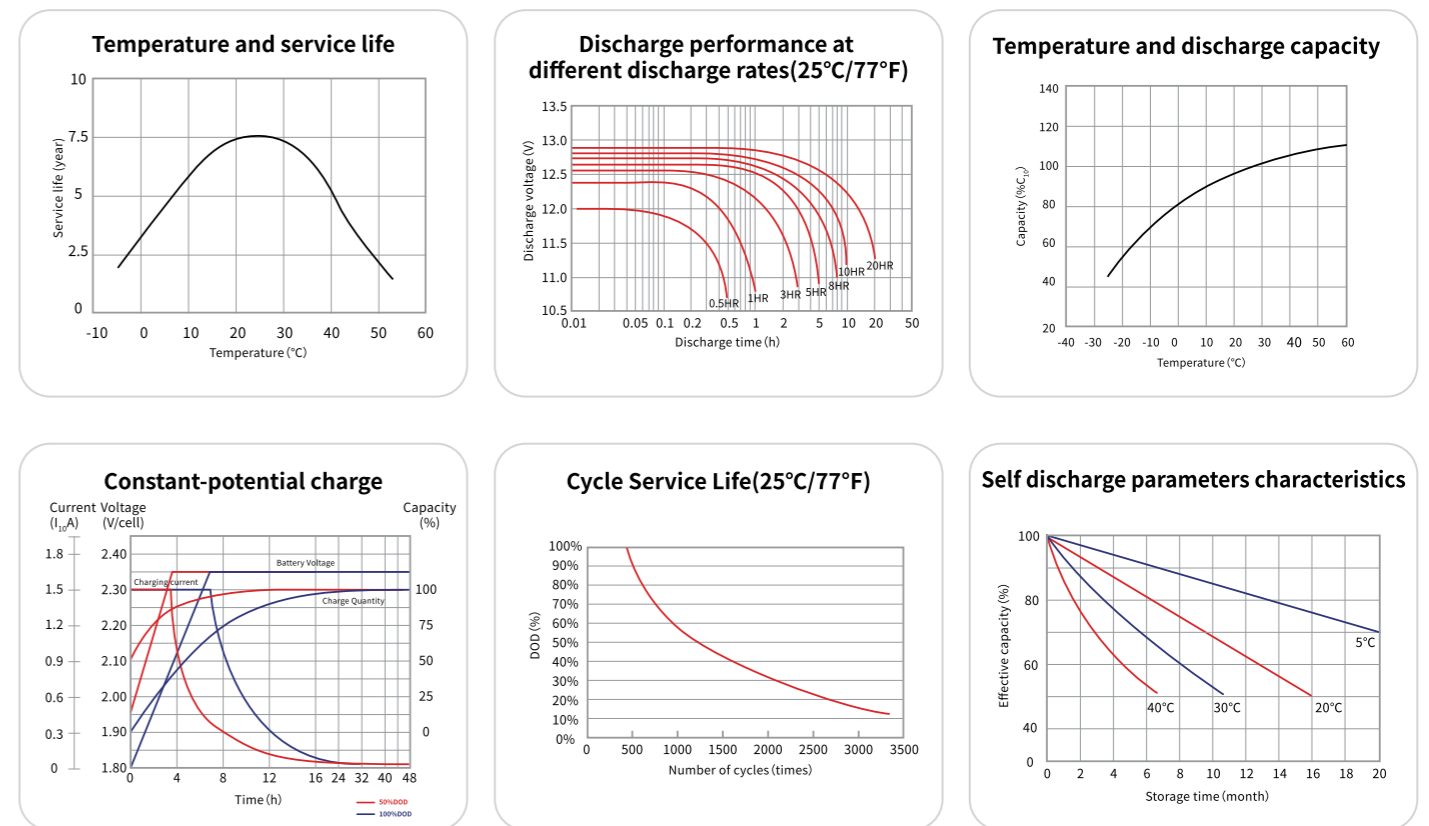


## Technology data

Model	AVC-6-65Ah	AVC-6-70Ah	AVC-6-80Ah	AVC-6-90Ah	AVC-6-100Ah	AVC-6-120Ah	AVC-6-150Ah	AVC-6-200Ah	AVC-6-250Ah
Rated voltage	12V								
Capacity (10hr, 1.80V/cell, 25°C)	65Ah	70Ah	80Ah	90Ah	100Ah	120Ah	150Ah	200Ah	250Ah
Weight	19Kg	22.5Kg	24.5Kg	28.5Kg	30Kg	32Kg	40.1Kg	55.5Kg	65.5Kg
Size(LxWxHmm)	326x171x167	330x171x215	330x171x215	405x173x231	405x173x231	405x173x231	482x171x240	525x240x219	525x268x220
Max discharge current	30I <sub>10</sub> A(3min)								
Max charging current	≤0.25C <sub>10</sub>								
Self-discharge (25°C)	≤3%/月								
Recommended using temperature	15°C~25°C								
Cover Material	ABS								
Using temperature	Discharge: -45°C~50°C			Charge: -20°C~45°C			Storage: -30°C~40°C		
Charging Voltage (25°C)	floating charge: 13.5V-13.8V 、equalizing charge: 14.1V-14.4V								
Charging Mode (25°C)	Float Charge: 2.275±0.025V/Cell 、 Temperature parameters: ±3mV/Cell°C 、 Cycle Charge: 2.45±0.05V/Cell 、 Temperature Compensation Coefficient: ±5mV/Cell°C								
Cycle life	100%DOD 572 times 、 50%DOD 1422 times 、 30%DOD 2218 times								
Capacity affected by temperature	105% @ 40°C 、 90% @ 0°C 、 70% @ -20°C								

## Performance characteristics

NOTE: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.



# Portable Outdoor Power Supply

600W 576Wh



Portable mobile power supply is a portable energy storage power supply that integrates multiple functions. It has built-in high-performance A-grade lithium iron phosphate batteries, high-quality BMS management system, and high-efficiency inverter conversion circuit. It can be used as a home, office, outdoor camping and emergency backup power supply. Mains or solar power available charging, can provide rated 220V/600W AC output, 5V/12V DC output, USB output, Type C, wireless output.

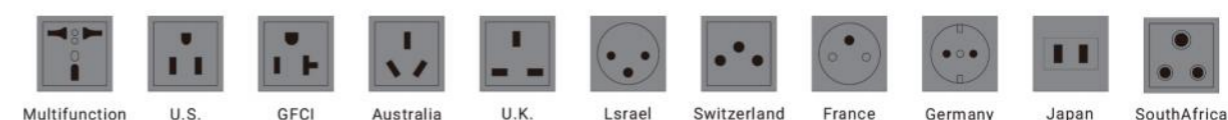
- Small, light weight, convenient
- Pure sine wave output,
- 0.3S quick start, High efficiency
- Support QC3.0 fast charging, support PD18-100W fast charging, 15W wireless charging
- LCD display, visualization of operating data

Model		APS600			
Rated Capacity		576WH			
Rated power		600W			
Charge and discharge parameters					
Operating temperature		0°C~40°C (Charge) -10°C~40°C(Discharge)			
Support charging type		Grid charging/Solar charging			
Input voltage range		Grid input 100V/solar input 20V			
Input voltage		Grid input 100V/Solar input 20V			
Charging voltage		12V			
AC Max charging current		50V/5A			
Max charging power		100W			
Output type	AC	USB	Type-C	DC	Wireless charging
Output rated power	600W	QC3.0 18W	100W MAX	100W	15W
Frequency		50Hz/60 Hz±1HZ(Auto)			
Output voltage/current	110~230V/10A	5V/2.4A,5V/3A	5~20V/3.25A	12.5V 8A	12V/1.25A
Product Features					
Cooling method		cooling fan			
Running noise		≤5dB			
Protection		IP53			
Working humidity		65±20%RH			
Storage humidity		65±20%RH			
Product Information					
Product Size		265*200*195mm			
Package Size		365*325*298mm			
Net weight		4.9kg			
Gross weight		6.5kg			
Packing		Carton			

## Protection





















## Customized sockets



# Portable Outdoor Power Supply

2000W 2016Wh



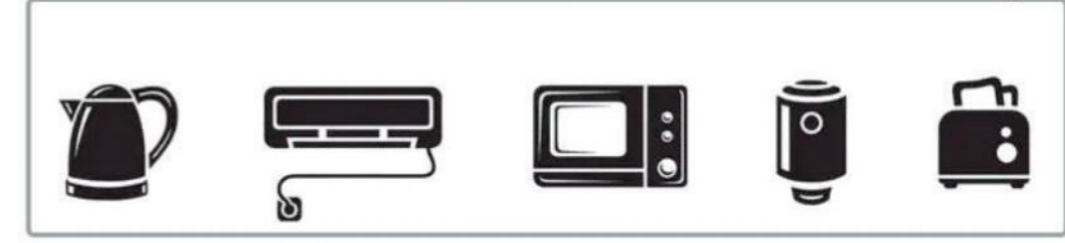
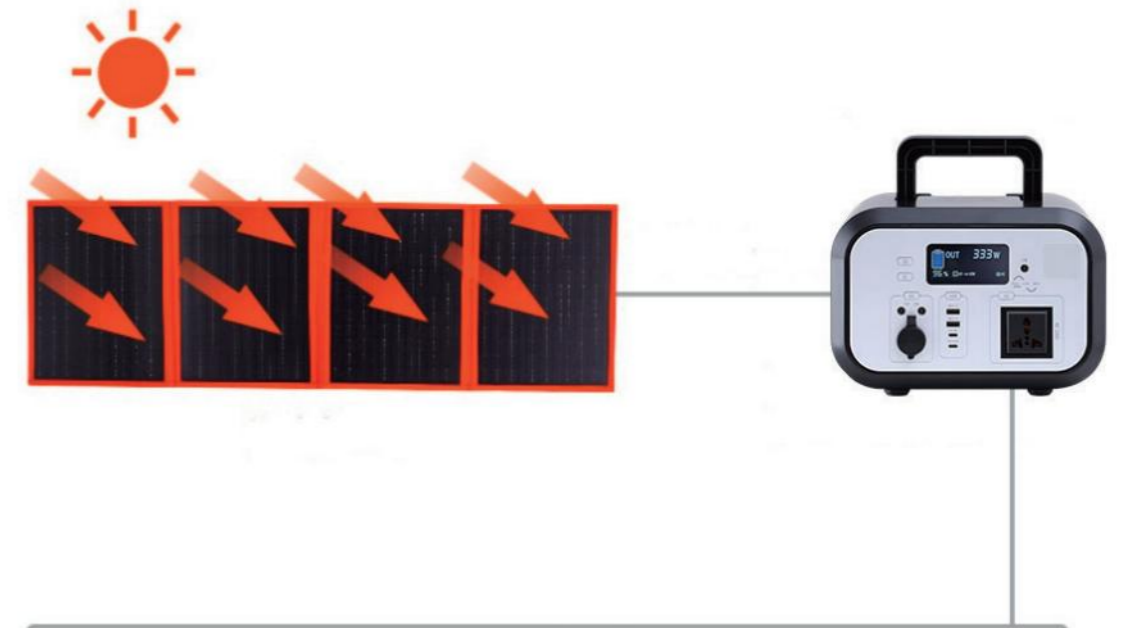
Model	APS2000Pro									
Rated Capacity	2016Wh									
Rated Power	2000W									
Charge and discharge parameters										
Charging temperature	0°C~45°C									
Discharging temperature	-20°C~45°C									
Storage temperature	-20°C~45°C (20°C~30°C best)									
Support charging type	Grid charging/Solar charging									
Input	AC input: 220V~240VAC / 50Hz~60Hz / 10A (full charging time: 1.6 hours)									
	Solar panel input: 2*400W (max), 10A (full charging time: 3.2 hours)									
	Car charging: 12V/24V (full charging time: 21~24 hours)									
Output	4*AC output :2000W / 50HZ / Peak Power(4000W) 1*Car Cigarette lighter port: 12V 10A (120W Max ) 4*USB-A 5V/2.4A 12W 2*USB-A QC3.0 18W 1*Type-C QC3.0 PD 100W 2*Type-C 45W Wireless Charge: 18W max									
Battery type	LiFePO4, pure sine wave									
Battery cycle time	3000 times									
Product Information										
Product Size	450*355*288mm									
Package Size	570*470*385mm									
Net weight	24.5kg									
Gross weight	28kg									
Packing	Carton									
Protection										
										
Low voltage Protection	Over voltage Protection	Over current Protection	Over temperature Protection	Balanced Protection	Over discharge Protection	Short circuit Protection				
Customized sockets										
										
Multifunction	U.S.	GFCI	Australia	U.K.	Lsrael	Switzerland	France	Germany	Japan	SouthAfrica

# Folding solar panel

100W



100W Folding solar panel	
Peak Power	100W
Solar Cell Lamination	PET or ETFE
Cell Type	Monocrystalline silicon
Working voltage	18V
Working current	5.5A
Open circuit voltage	24V
Short circuit voltage	7.4A
Operating temperature	-40°C~+70°C
Efficiency	≥22%
Protection level	IP 65
Weight	3.6 kg
Folded size	410*379*60 mm
Open size	1319*410*25 mm
Packing size	504*385*130 mm



# Rechargeable Solar Fan



Solar Charging



5V output charge mobile phone



LED light




Remote control



AC Power Charging



 <p>8052T / 8054T</p>	Blade size	12 inch	14 inch
	Product size	34*48*25 cm	39*52*25 cm
	Packing size	33.8*16*34.5 cm	39*16*39 cm
	Weight	3 KG	3.2 KG
	Voltage	110-240V 50 / 60Hz	
	Material	ABS+PP	
	Function	AC / DC Operated	
	DC input	DC 9V	
	USB output	USB 5V for mobile phone	
	Battery	6V 4.5Ah Lead-acid Battery	
	Charging time	10-12 Hours	
	Working time	3-10 Hours	
	Fan speed	2 gears	
	LED night light	Yes	
Output extra bulb	2 pcs (optional)		
Solar panels	9V 3W (optional)		

 <p>300A-16 / 300A-18</p>	Blade size	16 inch	18 inch
	Product size	43 * 130 * 38 cm	50 * 133 * 38 cm
	Packing size	62.8*13*56.5 cm	62.8*13*63.2 cm
	Weight	5.1 KG	5.2 KG
	Voltage	110-240V 50 / 60Hz	
	Material	ABS+PP	
	Function	AC / DC Operated, with 0.5 hour timer	
	DC input	DC 16V	
	USB output	USB 5V for mobile phone	
	Battery	12V 4.5Ah Lead-acid Battery	
	Charging time	10-12 Hours	
	Working time	3-10 Hours	
	Fan speed	9 gears	
	LED night light	Yes	
Output extra bulb	2 pcs (optional)		
Solar panels	16V 10W (optional)		



# All in one solar street light

Intelligent light control time control motion sensor , long-lasting battery life, can automatically light up in rainy days



## PRODUCT PARAMETERS

Model	SL001/30W	SL001/60W	SL001/90W	SL001/120W
Control Mode	Light Control + Remote Control + Human Body Induction			
Solar Panel	6V6W	6V8W	6V12W	6V15W
Battery	3.2V4000MAH	3.2V5000MAH	3.2V10000MAH	3.2V15000MAH
LED Chips	48	96	144	192
Lamp Size	203*390*53mm	216*485*53mm	238*626*53mm	238*725*53mm
Packing Size	410*310*440mm	420*320*495mm	650*320*525mm	735*340*525mm
Installation Height	3m	4-5m	5-6m	6-7m
Installation Area	1.60M <sup>2</sup>	2.80M <sup>2</sup>	3.14M <sup>2</sup>	4.18M <sup>2</sup>

# 100W Kickstand Solar Panel with 300Wh Power Cube



Support all home appliances & cars



Versatile ready-to-use



Portable durable



Recharge battery off-grid



100W Solar Panel	
Maximum Peak Power	100W
Maximum Power Voltage	19.8V
Maximum Power Current	5.05A
Open Circuit Voltage	23.4V
Short Circuit Current	5.34A
Panel Weight	7.25kg
Panel Size	1325x500x30mm
300Wh Power Cube	
Rated Power	300W
Peak Power	400W
Rated Capacity	300Wh
Adaptor Power	60W
Battery	Lithium-ion Phosphate
AC Output	1pc x AC220 ~ 240V port
USB Output	2pcs x 5V 2A port
Type C Output	2pcs x 5V 2A port
DC Port	DC5521 port, 13V max
Switch Button	1pc x main switch; 1pc x AC switch;
Power Cube Weight	2.3kg
Power Cube Size	285x180x60mm

15W 20 HRS	80W 4 HRS	50W 6 HRS	60W 5 HRS
15W 20 PCS	20W 15 PCS	10W 30 PCS	30W 10 PCS

## 1000W Solar Power System

Daily Pannel Output **2.25** KWh  
 Battery Power Storage **1.92** KWh  
 (5H Sunlight)

1 set 1000W Solar Power System including

- 1 pc 1000W inverter
- 1 pc 450W mono solar panels
- 1 pc 2420 controller
- 2 pcs 12V 80Ah gel batteries
- 1 set 10m PV wire\*black and red

Module Installation Area **2.5** square metres



What appliances can i run with a 1000W solar power system?

Appliance	Computer 150W/pc	Fan 50W/pc	Television 100W/pc	Rice cooker 600W/pc
Estimated time	About 12 hours	About 38 hours	About 18 hours	About 3 hours

Remark: The above appliances need separately run with one set 1000W solar power system. Estimated duration is calculated by the amount of energy released by the battery. When combined, the above is test theoretical value only for reference.

## 2000W Solar Power System (professional edition)

Daily Pannel Output **7.2** KWh  
 Battery Power Storage **6** KWh  
 (5H Sunlight)

1 set 2000W Solar Power System including

- 1 pc 2KVA inverter built in controller
- 4 pcs 450W mono solar panels
- 2 pcs 12V 250Ah gel batteries
- 1 set 20m PV wire\*black and red

Module Installation Area **10** square metres



What appliances can i run with a 2000W solar power system?

Appliance	Air Conditioner 1P750W/pc	Kettle 1200W/pc	Light 200W/pc	Rice cooker 600W/pc
Estimated time	About 8 hours	About 5 hours	About 30 hours	About 10 hours

Remark: The above appliances need separately run with one set 2000W solar power system. Estimated duration is calculated by the amount of energy released by the battery. When combined, the above is test theoretical value only for reference.

## 8000W Solar Power System

Daily Pannel Output **14.4** KWh  
 Battery Power Storage **12** KWh  
 (5H Sunlight)

1 set 8000W Solar Power System including

- 1 pc 10KVA inverter built in controller
- 6 pcs 550W mono solar panels
- 4 pcs 12V 250Ah gel batteries
- 1 set 30m PV wire\*black and red

Module Installation Area **18** square metres



What appliances can i run with a 8000W solar power system?

Appliance	Air Conditioner 2P1500W/pc	Washing Machine 1000W/pc	Hot Water Heaters 2000W/pc	Water Pump 800W/pc
Estimated time	About 8.5 hours	About 10 hours	About 6 hours	About 15 hours

Remark: The above appliances need separately run with one set 8000W solar power system. Estimated duration is calculated by the amount of energy released by the battery. When combined, the above is test theoretical value only for reference.

## 10000W Solar Power System

Daily Pannel Output **22.5** KWh  
 Battery Power Storage **19.2** KWh  
 (5H Sunlight)

1 set 10000W Solar Power System including

- 1 pc 10000W inverter
- 10 pcs 450W mono solar panels
- 1 pc 96V50A controller
- 8 pcs 12V 200Ah gel batteries
- 1 set 60m PV wire\*black and red

Module Installation Area **25** square metres



What appliances can i run with a 10000W solar power system?

Appliance	Air Conditioner 3P2250W/pc	Electric drill 2000W/pc	Electric water heater 3500W/pc	Lighting fan 1800W/pc
Estimated time	About 7 hours	About 8 hours	About 5 hours	About 10 hours

Remark: The above appliances need separately run with one set 10000W solar power system. Estimated duration is calculated by the amount of energy released by the battery. When combined, the above is test theoretical value only for reference.

## 3000W Solar Power System

Daily Pannel Output **11** KWh  
 Battery Power Storage **9.6** KWh  
 (5H Sunlight)

1 set 3000W Solar Power System including

- 1 pc 3KVA inverter built in controller
- 4 pcs 550W mono solar panels
- 4 pcs 12V 200Ah gel batteries
- 1 set 20m PV wire\*black and red

Module Installation Area **12.5** square metres



What appliances can i run with a 3000W solar power system?

Appliance	Air Conditioner 1.5P1200W/pc	Induction cooker 2000W/pc	Light 300W/pc	Rice cooker 900W/pc
Estimated time	About 8 hours	About 4.8 hours	About 32 hours	About 10 hours

Remark: The above appliances need separately run with one set 3000W solar power system. Estimated duration is calculated by the amount of energy released by the battery. When combined, the above is test theoretical value only for reference.

## 5000W Solar Power System

Daily Pannel Output **13.5** KWh  
 Battery Power Storage **12** KWh  
 (5H Sunlight)

1 set 5000W Solar Power System including

- 1 pc 5KVA inverter built in controller
- 6 pcs 450W mono solar panels
- 4 pcs 12V 250Ah gel batteries
- 1 set 30m PV wire\*black and red

Module Installation Area **15** square metres



What appliances can i run with a 5000W solar power system?

Appliance	Air Conditioner 2P1500W/pc	Washing Machine 1000W/pc	Hot Water Heaters 2000W/pc	Water Pump 800W/pc
Estimated time	About 8 hours	About 10 hours	About 6 hours	About 15 hours

Remark: The above appliances need separately run with one set 5000W solar power system. Estimated duration is calculated by the amount of energy released by the battery. When combined, the above is test theoretical value only for reference.

## 15000W Solar Power System

Daily Pannel Output **48** KWh  
 Battery Power Storage **38.4** KWh  
 (5H Sunlight)

1 set 15000W Solar Power System including

- 1 pc 15000W inverter
- 21 pcs 450W mono solar panels
- 1 pc 192V50A controller
- 16 pcs 12V 200Ah gel batteries
- 1 set 80m PV wire\*black and red

Module Installation Area **55** square metres



What appliances can i run with a 15000W solar power system?

Appliance	Air Conditioner 3P2250W/pc	Electric drill 2000W/pc	Electric water heater 3500W/pc	Lighting fan 1800W/pc
Estimated time	About 16 hours	About 17 hours	About 10 hours	About 21 hours

Remark: The above appliances need separately run with one set 15000W solar power system. Estimated duration is calculated by the amount of energy released by the battery. When combined, the above is test theoretical value only for reference.

## 20000W Solar Power System

Daily Pannel Output **48** KWh  
 Battery Power Storage **38.4** KWh  
 (5H Sunlight)

1 set 20000W Solar Power System including

- 1 pc 20000W inverter
- 21 pcs 450W mono solar panels
- 1 pc 192V50A controller
- 16 pcs 12V 200Ah gel batteries
- 1 set 80m PV wire\*black and red

Module Installation Area **55** square metres



What appliances can i run with a 20000W solar power system?

Appliance	Air Conditioner 3P2250W/pc	Electric drill 2000W/pc	Electric water heater 3500W/pc	Water pump 2800W/pc
Estimated time	About 16 hours	About 18 hours	About 10 hours	About 13 hours

Remark: The above appliances need separately run with one set 20000W solar power system. Estimated duration is calculated by the amount of energy released by the battery. When combined, the above is test theoretical value only for reference.

