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**Shenzhen
Apollo Energy holdings ltd**

Be the most trusted energy
storage expert of customers

Apollo Energy



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2 Product Presentation

- *Portable Power Station.*
- *Solar Home Energy Storage system.*
- *Industrial And Commercial Cabinet Type Energy Storage system.*

About Apollo Energy

Shenzhen Apollo Energy holdings Ltd was found at 2002, with a team of professional engineers that based on appliances system and new energy system technology plan design and development .Our engineer team involved in ID , MD , Electronic Hardware and Software Control , especially in the field of Energy storage and Power Supply , we had accumulated with profound technology experience and patents , can provide customers with one - stop service from ID to finished products .

We registered Apollo as our B2B export brand . With our best confidence in our products , Apollo now have set up our own export sales engineer team . We will able to provide customers with great service on ODM / OEM and tech - support.



Corporate Vision

Be an energy storage expert trusted by customers

Corporate culture

Simple, efficient, professional and dedicated

MICRO INVERTER FOR BALCONY SOLAR SYSTEM



High Efficiency



Long Lifespan



Low Cost



Easy Installation



Model	AP0-M600	AP0-M800	AP0M-2000	AP0M-2800
commonly used module power(w)	Max 2*375w	MAX*2*500W	Max 4*625W	Max 4*875W
peak power MPPT voltage range(v)	30-60			
MAX input voltage (v)	60			
MAX input current (A)	2*14	2*18	2*20	2*27
peak microinverter efficiency	92.70%			
CEC eighted efficiency	92.50%			
nominal MPPT efficiency	99.80%			
water proof	IP65			
Ambient temperature range(°C)	- 20 °to +50°			
Dimensions(W*H*Dmm)	238*200*41.6		370*300*41.6	
weight(kg)	1.46	1.46	3.16	3.16
communication method	WIFI			
Surveillance system	Cloud intelligence			
warranty	10 year			
Electrical standard	EN 50549-1:2019, EN 50549-2:2019 EN 61000-6-1:2007, EN 61000-6-3:2007 + A1:2011 + AC2012IEC/EN 62109-1:2010, IEC/EN 62109-2:2011			



Battery Expert More than 20 years



AP1000 PRO

- Packing :1in1,14.13KG
- Battery class :Lithium ion Battery
- Battery Power :1000Wh
- Total Capacity :280800mAh
- AC Output :110V/220V pure sine wave
- Material :aluminium alloy +ABS PC V0
- Product Size :192*303*192mm
- Product weight:11.8KG

Where you are, Where power is.



AP2000 PRO

- Packing :1in1,26KG
- Battery class :LiFePO4 Battery
- Battery Power :2048Wh
- Total Capacity :32V 64Ah
- AC Output :110V/220V pure sine wave
- Material :ABS PC V0+Aluminum alloy
- Product Size :440*202*345mm
- Product weight:24KG

Where you are, Where power is.

Multi-function Output Fast Charging

Support PD100 fast charging solution
Support Huawei 22.5W super fast charge

- Supports PD100W fast charging solution on Type-C port, compatible with QC3.0 fast charging protocol.
- MacBook can charge 4 times faster, supports Apple's 12PD 20W Flash Charging.
- The blue USB-A port can compatible with multi-protocol and supports Huawei 22.5W super fast charging.



Outdoor Dining



Portable Refrigerator
Power supply about 9-10 hours

Toaster
Power supply about 3-4 hours

Laptop



Power supply about 12-14 times

iPhone Xs



Power supply about 70-74 times

Outdoor working



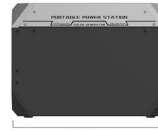
Photography



SLR Camera
Power supply about 56-64 hours

UAV
Power supply about 20-24 times

SPECIFICATIONS

325MM
202MM
440MM

Brand: Apollo

AC output: 220V 50Hz±110V 60Hz

DC output: 12V10A± 24V10A

Model: AP2000PRO

Battery type: LiFePo4

Cycle times: 3000-5000 times

Type-C output: PD100W

Type-C output: PD100W

USB1 output: QC3.0 5V2.4A/5V3A/9V2A12V1.5A 22.5W(MAX)

USB2 output: QC3.0 5V2.4A/5V3A/9V2A12V1.5A 22.5W(MAX)

USB3 output: QC3.0 5V2.4A/5V3A/9V2A12V1.5A 22.5W(MAX)

USB4 output: QC3.0 5V2.4A/5V3A/9V2A12V1.5A 22.5W(MAX)

Capacity: 640000mAh(2000WH)

DC Charge: grid power charge/car charge/solar charge

Dimensions: 440*202*325mm

Power display: LED light display

Output waveform: pure sine wave

Weight: 24kg

PHOTOGRAPHY



50*TIMES
DRONE 409H

130*TIMES
CAMERA 159H

CAMPING



13H
PROJECTOR 150W

25H
LIGHT 80W

ALL IN ONE RESIDENTIAL ENERGY STORAGE POWER SUPPLY

Build-in Inverter together
Reduce Your Installtion Material Cost And Time



Model	AP3000	AP3500	AP5500
Nominal Capacity	25.6/2560WH (LifeP04)	25.6/3072WH (LifeP04)	25.6/5120WH (LifeP04)
AC output power	3000W (MAX.)	3500W (MAX.)	5500W (MAX.)
AC input power	700W (MAX.)	2200W (MAX.)	4500W (MAX.)
PV input power	1120W (MAX.)	3500W (MAX.)	5500W (MAX.)
PV input Voltage range	30V~80V	120V~450V	120V~450V
Size(L*W*H)	700*455*170mm	835*530*170mm	835*530*170mm
Net weight	35.5kg	40.5kg	57kg



Battery Expert More than 20 years



Distributed household energy storage

Flexible

- Easy installation and maintenance
- Customized design and DIY for different customers

Fashion

- Stylish and elegant appearance
- Lightweight, space saving

Security

- Mixed operation mode (matching load, standby power mode, peak shaving and valley filling)
- Multiple protection and alarm systems, safe and reliable
- Meet CE certification requirements



Type	Parameter
Model	APO 0F4CBA3A 16S1P
Nominal voltage	51.2V
Monomer capacity (1/3Cmin)	102Ah
Rated energy	5222Wh
Standard charging current	20A @ 23°C
Max. continuous charge current	100A @ 23°C
Charge cut-off voltage	3.80V/Cell
Discharge cut-off voltage	2.00V/Cell
Standard discharge current	20A @ 23°C
Max. continuous discharge current	100A @ 23°C
Max. charge power	11600W (BOL/23°C/50%SOC/5S)
Max. discharge power	11600W (BOL/23°C /50%SOC/5S)
Charge ambient temperature	-20~+50°C
Discharge ambient temperature	-30~+55°C
Short term storage ambient temperature	-20-+35°C (<3 months,20~60% SOC)
Long term storage ambient temperature	-20-+30°C (<1 year,30~60% SOC)
Storage humidity	5%~95%
Overheating protection	65°C
Size	1100*850*70/92.5mm
Weight	47.5±0.05 Kg



CERTIFIED
UL 1973
UL 9540A

69mm
SUPER SLIM

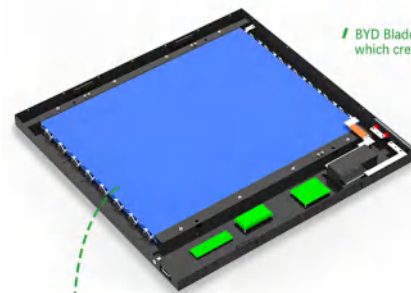
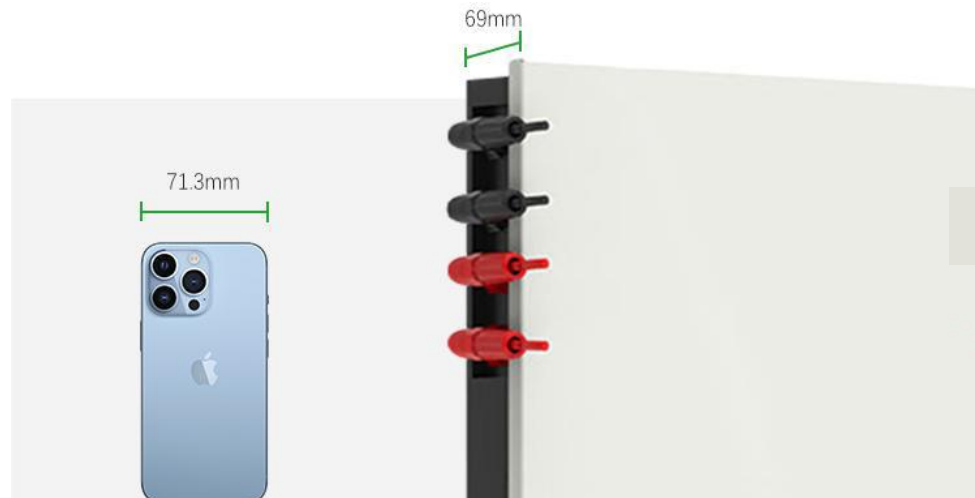


BYD BLADE Inside

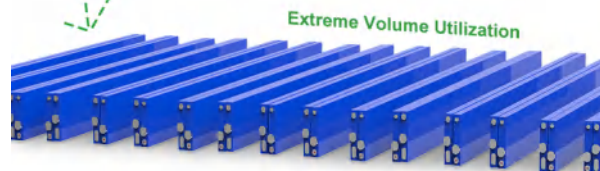
16 units parallel in Max

6500+ life cycles

138A intelligent BMS



BYD Blade Cells form a ladder-frame,
which creates rigidity





Battery Type	LiFePO4 Battery
Battery Model	LNT051100A-B-GBP2
Battery Power	5.12KWh
Battery Voltage	51.2V
Capacity of Battery	100Ah
Charge Voltage	56V
Discharge Voltage	46V
Max Charge Current	≤100A
Max Discharge Current	≤100A
Short Circuit Protection Current	1652A (106mS)
Depth of Discharge	80% DOD
Charge Working Temperature Range	0~45°C
Discharge Working Temperature Range	-20~55°C
Display	LCD/LED
Communication	CANBUS/RS485
Degree of Protection	IP50
Installation Manual & More Information	www.apolloenergy.cc



Battery Type	LiFePO4 Battery
Battery Model	LNT051200A-B-GBP2
Battery Power	10.24KWh
Battery Voltage	51.2V
Capacity of Battery	200Ah
Charge Voltage	56V
Discharge Voltage	46V
Max Charge Current	≤100A
Max Discharge Current	≤150A
Short Circuit Protection Current	1652A (106mS)
Depth of Discharge	80% DOD
Charge Working Temperature Range	0~45°C
Discharge Working Temperature Range	-20~55°C
Display	LCD/LED
Communication	CANBUS/RS485
Degree of Protection	IP50
Installation Manual & More Information	www.apolloenergy.cc



Convenient

Quick installation, just plug and play.

Safe and Reliable

Cathode material is made from LiFePO4 with safety performance and long cycle life. The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

Intelligent BMS

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

Eco-friendly

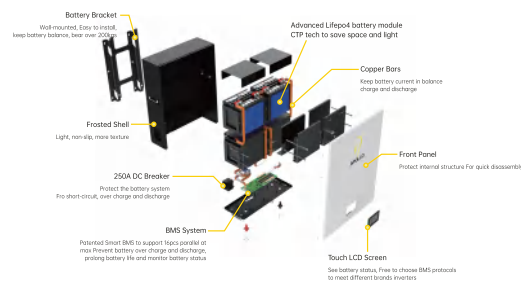
The whole module is non-toxic, non-polluting and environmentally friendly.

Flexible Configuration

Multiple battery modules can be in parallel for expanding capacity and power. Support USB upgrade, WIFI upgrade (optional), remote upgrade (Compatible with Deye inverter).

Wide Temperature

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.



POWER STORAGE INVERTER



3.6K 5.0K 8.0K EU Single Phase Inverter

Nominal Parameters

Model No	APO-H-3.6K-EU	APO-H-5.0K-EU	APO-H-8.0K-EU
Lifepo4 Battery Voltage	40-60V		
BMS Protocol	Canbus		
Max PV Input	4860W	6500W	10400W
Max AC Output	3600W	5000W	8000W
Max AC Input	3600W	5000W	8000W
Output Frequency And Voltage	50/60Hz; 220/230/240Vac (Single phase)		
Grid Type	Hybrid, On-Off Grid		
Dimensions (WxHxD)	330x580x232mm	330x580x232mm	420x670x233mm
Weight	20.5kg	20.5kg	32kg
Grid Regulation	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699: 2011, XP C15-712-3: 2019-05		
Safety Regulation	IEC62109-1, IEC62109-2		
EMC	EN61000-6-1, EN61000-6-3		

POWER STORAGE INVERTER



8K 10K 12K 48VDC 3Phase Inverter

Nominal Parameters

Model No	APO-8K-3PH-EU	APO-10K-3PH-EU	APO-12K-3PH-EU
Lifepo4 Battery Voltage	40-60V		
BMS Protocol	Canbus		
Max PV Input	10400W	13000W	15600W
Max AC Output	8000W	10000W	12000W
Max AC Input	8000W	10000W	12000W
Output Frequency And Voltage	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac, Three Phase		
Grid Type	Hybrid, On-Off Grid		
Dimensions (WxHxD)	422x702x281mm		
Weight	34.5kg		
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11		
Safety Regulation	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

POWER STORAGE INVERTER



US 5K 8K 48VDC Inverter

Nominal Parameters

Model No	APO-H-5KLV-US	APO-H-8KLV-US
Lifepo4 Battery Voltage	40-60V	
BMS Protocol	Canbus	
Max PV Input	7600W	13000W
Max AC Output	5000W	10000W
Max AC Input	5000W	10000W
Output Frequency And Voltage	50/60Hz; 120-240Vac(Split Phase)	
Grid Type	Hybrid, On-Off Grid	
Dimensions (WxHxD)	430x710x210mm	
Weight	45kg	
Grid Regulation	UL1741,IEEE1547,RULE21,VDE 0126,AS4777,NRS2017,G98,G99	
Safety Regulation	EN61000-6-1, EN61000-6-3, FCC 15 class B	
EMC	IEC62109-1, IEC62109-2	

POWER STORAGE INVERTER



7.6K 12K HV80-400VDC US Inverter

Nominal Parameters

Model No	APO-H-7.6KHV-US	APO-H-12KHV-US
Lifepo4 Battery Voltage	80-400V	
BMS Protocol	Canbus	
Max PV Input	10000W	15600W
Max AC Output	7600W	12000W
Max AC Input	7600W	12000W
Output Frequency And Voltage	50/60Hz; 110-120/220-240Vac, Split Phase	
Grid Type	Hybrid, On-Off Grid	
Dimensions (WxHxD)	530x660x200mm	
Weight	32.5kg	
Grid Regulation	UL1741,IEEE1547,RULE21,VDE	
Safety Regulation	UL1741SA all options, UL1699B, CSA 22.2	
EMC	FCC Part 15 ClassB	



RFID Version

This is a wallbox that supports RFID function. The user can control the wallbox to start and stop through the RFID card and prevent the unauthorized use of the cardless user.

INTELLIGENT CHARGING STATION
HOME EV WALLBOX
7KW / 32A / 1PHASE



MULTIPLE PROTECTION



Waterproof for Outdoor or Indoor Use

Waterproof grade IP65. Place and move your portable charger anywhere around your home both inside and out.



One Charger to Charge Them All

For all high amperage EVs





Residential energy storage system, modular high-voltage battery, suitable for residential energy storage, One set provides electricity for the whole house.



Support a variety of communication protocols, support RS485, RS232, CAN etc



Modular structure for easy installation



Long cycle life



Intelligent battery management system



LED lights display the parameters of the equipment in real time



Supports up to 16 clusters in parallel



Can be used with hybrid inverter



APOLLO

Module Quantity	3	4	5	6	7	8
Nominal Capacity(KWh)	7.68	10.24	12.8	15.36	17.92	20.48
Cell Matching	48S1P	64S1P	80S1P	96S1P	112S1P	128S1P
Operating Voltage Range(V)	136.8-172.81	182.4-230.4	228-288	273.6-345.6	319.2-403.2	364.8-460.8
Nominal Power(Kw)	7.68	10.24	12.8	15.36	17.92	20.48
Battery Module Dimension(mm)	550*380*130					
Battery Type	LFP(LiFePO4)					
Nominal Operating Current (A)	50					
Communication Port	CAN/RS485					
Operating Temperature Range	Charge: 0-45°C/Discharge: -20-50°C					
Operating Relative Humidity (%rh)	0-95%rh					
Operating Altitude(M)	≤4000m					
Waterproof	IP65					
Installation Method	Floor-standing					
Warranty	10Years					

Modular free stacking, easy to use, a variety of choices





- Self use
- Use electricity for backup
- Oil electricity complementation

Power grid complementary household off grid energy storage

Flexible

- Stylish and elegant appearance

Fashion

- Universal wheel design to meet the needs of more electricity scenarios
- Customized design and DIY for different customer

Security

- Mixed operation mode (matching load, standby power mode, peak shaving and valley filling)
- Multiple protection and alarm systems, safe and reliable
- Meet CE certification requirements



Model	APO-E50	APO-P60
AC parameters (grid connection mode)		
Rated power	3000W	5000W
Rated voltage/range	110-120/220-240V split phase	
Rated frequency	50/60Hz	
AC parameters (battery mode)		
Output power	3000W	5000W
Output voltage	110-120/220-240V split phase	
Rated frequency	50/60Hz	
Switching time between parallel and offline	≤20mS	
Battery parameters		
Rated voltage/range	48V/44.8~57.6V	
Battery type	Lithium iron phosphate battery (LFP)	
Battery capacity/expansion mode	7.5/10/12kwh	
Maximum charge/discharge rate	0.7/1C	
PV parameters		
Recommended maximum photovoltaic input power	2000W	4000W
Open circuit voltage/MPPT voltage range	115/70~145V	
Number of MPPT/number of strings per channel	1/1	2/1
Maximum input current of each circuit	40A	
System parameters		
Interface HMI	LCD+Wifi+LED	
Installation method	Floor against wall	
Size/Weight	642*310*540mm (reference)	



Movable energy storage power 2.5KWH system

Flexible

- Pull rod design to meet the needs of more power scenarios
- Customized design and DIY for different customers

Fashion

- Stylish and elegant appearance
- Space saving

Security

- Mixed operation mode (matching load, standby power mode, peak shaving and valley filling)
- Multiple protection and alarm systems, safe and reliable
- Meet CE certification requirements



Name	Specifications	Parameter	Quantity	Remarks
Battery	2500WH	Lithium iron phosphate battery pack	1	
Input port	12V-30V input	Maximum 150W	1	Maximum input power 150W
	Solar charging input	Maximum open circuit voltage 30V MPPT voltage : 12V-30V		
	Mains power input	110V , 11.4A ; 220V , 5.68A , Maximum 1250W	1	Inverter charging
Output port	USB-A output	5V , 3.6A , Maximum 18W	2	Top 2, slow charging
		QC3.0 , 18W	2	Next 2, QC3.0 fast charging
	12V output	12V , 10A , Maximum 120W	1	
	TYPE-C output	PD 3.0 65W	2	PD fast charging
	AC output	110V edition : Single port maximum1100W	1	Total rated power 2500W, maximum 5000W (3 seconds duration)
		220V edition : Single port maximum 2200W	1	
Size	product : 260X200X300MM	Wooden box : 420X280X310MM		
Shell material	Top	ABS plastic , PC plastic		
	Side	201 stainless steel plate		
	handle	Aluminium alloy		
Net weight	28kg	32kg		Estimated weight
Heat dissipation mode	Cooling fan		4	
Gross weight	33.5kg			Estimated weight
Executive standards	GB/T 36558-2018 《General Technical Conditions for Electrochemical Energy Storage System of Power System》			
Battery certification	UN38.3,MSDS,UL			
Complete machine certification	Meet CE,FCC,ETL			
Environmental certification	Rohs,REACH			



- Use electricity for backup
- Smart home energy management

Integrated energy storage system

Flexible

- The design of pull rod and universal wheel can meet the needs of more electricity scenarios
- Customized logo can be satisfied

Fashion

- Stylish and elegant appearance

Security

- Integrated design, with LFP lithium battery integrated internally;
- Mixed operation mode (matching load, standby power mode, peak shaving and valley filling);
- Multiple protection and alarm systems, safe and reliable;
- Meet CE certification requirements;



Model	APO-M1	APO-M2	APO-M3
AC parameters (grid connection mode)			
Rated power	3600W	4600W	6000W
Rated voltage/range	230V /180Vac~280Vac		
Rated frequency	50/60Hz		
AC parameters (battery mode)			
Output power	3600VA	4600VA	6000VA
Output voltage	230V		
Rated frequency	50/60Hz		
Switching time between parallel and offline	≤20mS		
Battery parameters			
Rated voltage/range	48V/44.8~57.6V		
Battery type	Lithium iron phosphate battery (LFP)		
Battery capacity	5kwh*N (N≤4)		
Maximum charge/discharge rate	0.7/1C		
PV parameters			
Recommended maximum photovoltaic input power	4600W	6000W	7000W
Open circuit voltage/MPPT voltage range	600V/125~600V		
Number of MPPT/number of strings per channel	2/1		
Maximum input current	14A/14A		
System parameters			
Interface HMI	LCD+Wifi+LED		
Installation method	Wall hanging or floor against the wall		
Size/Weight	613*275*511mm (reference)		



- Self use
- Use electricity for backup
- Smart home energy management

Double live wire/three-phase energy storage

Flexible

- Two way wheel design to meet the needs of more indoor and outdoor electricity scenarios
- Customized logo can be satisfied

Fashion

- Stylish and elegant appearance

Security

- PCS and battery system are designed separately for indoor/outdoor installation;
- High voltage battery system design, supporting up to 4 modules in series, with a maximum capacity of 26.4kwh;
- Mixed operation mode (matching load, standby power mode, peak shaving and valley filling)
- Multiple protection and alarm systems, safe and reliable
- Meet CE certification requirements;



Model	APO-M10K	APO-M15K	APO-M12K
AC parameters (grid connection mode)			
Rated power	10000W	15000W	12500W
Rated voltage/range	400V /360Vac~440Vac		110-120/220-240V split phase
Rated frequency	50/60Hz		
AC parameters (battery mode)			
Output power	10000VA	15000VA	12500VA
Output voltage	400Vac		110-120/220-240V split phase
Rated frequency	50/60Hz		
Switching time between parallel and offline	≤20mS		
Battery parameters			
Rated voltage/range	102.4V/89.6~115.2V		
Battery type	Lithium iron phosphate battery (LFP)		
Battery capacity/expansion mode	5.12kwh*N (2≤N≤4) / In series		
Maximum charge/discharge rate	0.7/1C		
PV parameters			
Recommended maximum photovoltaic input power	13000W	18000W	14400W
Open circuit voltage/MPPT voltage range	720/160~860V		600V/125~600V
Number of MPPT/number of strings per channel	2/1		4/1
Maximum input current of each circuit	14A		
System parameters			
Interface HMI	LCD+Wifi+LED		
Installation method	Wall hanging or floor against the wall		
Size/Weight	485*450*140*6mm (reference)		



- Self use
- Use electricity for backup
- Oil electricity complementation

Double live wire/three-phase energy storage

Flexible

- Two way wheel design to meet the needs of more indoor and outdoor electricity scenarios
- Customized logo can be satisfied

Fashion

- Stylish and elegant appearance

Security

- PCS and battery system are designed separately for indoor/outdoor use;
- High voltage battery system design;
- Mixed operation mode (matching load, standby power mode, peak shaving and valley filling)
- Multiple protection and alarm systems, safe and reliable
- Meet CE certification requirements;



Model	APO-E50	APO-P60
AC parameters (grid connection mode)		
Rated power	5000W	6000W
Rated voltage/range	230V /180Vac~280Vac	110-120/220-240V split phase
Rated frequency	50/60Hz	
AC parameters (battery mode)		
Output power	5000VA	6000VA
Output voltage	230Vac	110-120/220-240V split phase
Rated frequency	50/60Hz	
Switching time between parallel and offline	≤20mS	
Battery parameters		
Rated voltage/range	48V/44.8~57.6V	
Battery type	Lithium iron phosphate battery (LFP)	
Battery capacity/expansion mode	7.5/10/12kwh	
Maximum charge/discharge rate	0.7/1C	
PV parameters		
Recommended maximum photovoltaic input power	5000W	8000W
Open circuit voltage/MPPT voltage range	115/60~145V	115/60~145V
Number of MPPT/number of strings per channel	1/1	2/1
Maximum input current of each circuit	40A	
System parameters		
Interface HMI	LCD+ Wifi+LED	
Installation method	Wall hanging or floor against the wall	
Size/Weight	642*310*540mm (reference)	



5kw mobile energy storage generator have small size, light weight, compact structure, beautiful appearance of the sound insulation cover. convenient operation, excellent performance and reliable operation.



Item classification	Item	Specification
Grid output parameters(AC)	Rated AC output power	5000KVA
	Rated AC output current	21.7A
	THDI	<3%
	Rated grid voltage/Grid voltage range	230Vac/176-270Vac
	Rated grid frequency/Grid frequency range	50Hz (45-54Hz) /60Hz (55-65Hz)
	Type of grid connection	AC Charging connector
EPS Output(with battery)	EPS rated voltage	220/230/240Vac
	EPS rated frequency	50/60Hz
	Max. EPS power	5000VA
	EPS overload protection	150%, 30S
	THDU	<2%
	Type of output connection	Socket panel、AC Charging connector
Battery Parameter	Switch times	<20mS
	Battery type	Lithium-iron battery
	Battery rated voltage	51.2V
	Capacity	100AH
	Battery voltage range	42-58V
	Max. charging current	75A
Other system Parameter	Max. discharging current	100A
	Max. efficiency	95%
	Cooling method	FAN
	Storage/Operation relative humidity	10-90% (Condensing)
	Operating temperature range	-20℃~50℃(Derating at 45℃)
	Altitude	<2000m
	Display	LED
	Dimension(W*D*H)	600*650*400mm
	Certificate	CE/TUV



20KWH/10KW



Model	APO--51.2V/200AH、 400AH、 10KW inverter
AC parameters (mode)	
Battery parameters	
Rated voltage/range	44.8~57.6V
Battery type	Lithium iron phosphate battery (LFP)
Battery capacity	10KWH、 20KWH
Maximum charge/discharge rate	0.5/1C
Maximum input current	20A
System parameters	
Interface HMI	LCD+LED
Installation method	landing
Size/Weight	600*800*1100mm
Matched inverters: Growatt, Goodwe, Shouhang, Deye, Voltronic, East, SMA, etc.	

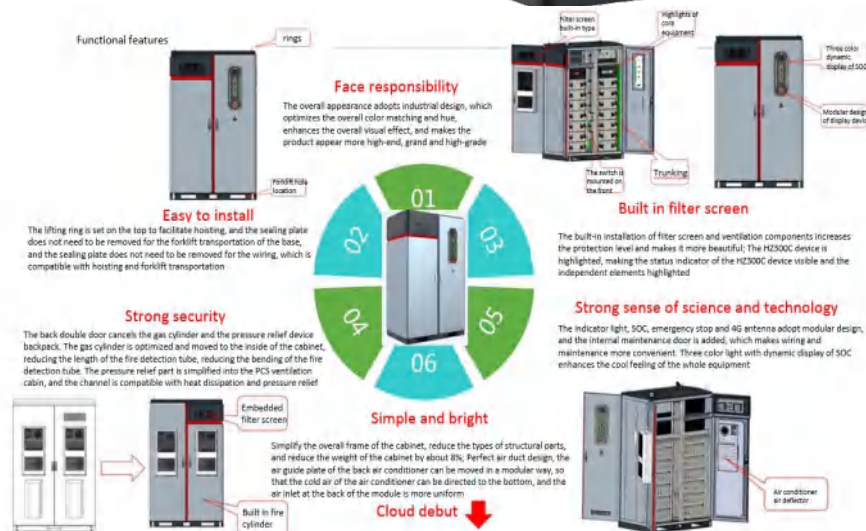


Ultra thin energy storage power supply



AC side parameters	Rated power (Kw)	200
	Output overload capacity (Kw)	At 110% rated current, the continuous operation time shall not be less than 10min; at 120% rated current, the continuous operation time shall not be less than 1min
	AC access mode	Three phase five wire (A,B,C ,PE)
Sub control module parameters	Operation mode	Continuous operation
	Maximum DC power (Kw)	13.5 (At rated power)
	DC voltage operating range (V)	92-129 (Rated voltage Ue=380VAC, voltage range 0.85-1.2Ue)
	DC voltage ripple coefficient(%)	5
Grid connected charging and discharging parameters	Rated grid voltage (V)	AC380
	Allowable grid voltage (V)	0.85-1.2U
	Rated grid frequency (Hz)	50
	Allowable grid frequency (Hz)	49-51
	Total harmonic distortion rate of current(%)	3(At rated power)
	Power factor	≥0.98
	Charge discharge switching time (ms)	≤100ms
Structural parameters	Inverter size	875*720*1380mm
	Battery pack size	3000*600*1405mm
	IP Grade	IP20(indoor)
	Cooling mode	Forced cold air
System parameters	Efficiency (%)	97
	Allowable ambient temperature (°C)	‘-20°C~45°C
	Noise	70
Display and communication	Communication interface	Can bus, Ethernet
	HMI	EMS

55KW industrial and commercial energy storage



Project	Standard	Remarks
Nominal voltage (V)	345.6	
Nominal capacity (Ah)	160	Standard charge and discharge
Nominal stored energy (KWh)	55	
Total cut-off voltage of charging (V)	394	Adjustable
Total discharge cut-off voltage (V)	270	Adjustable
Charging cut-off unit voltage (V)	3.65	Adjustable
Discharge cut-off unit voltage (V)	2.5	Adjustable
Standard charging and discharging current (A)	80	
Charging cut-off current (A)	2.0	Adjustable
Maximum charging and discharging current (A)	180	Adjustable
Work efficiency	> 95%	
Assembly method	108S2P	F80
Size (mm)	1424 *950 *2300	L*W*H
Weight (Kg)	700	About
Waterproof grade	IP54	
Operating temperature range (°C)	-20 ~ 50	
Storage temperature range (°C)	-40 ~ 50	
Storage environment humidity (RH)	5% ~ 95%	
Working environment humidity (RH)	≤85%	



Industrial and commercial cabinet type energy storage

Product features

- High integration/security;
- Strong environmental adaptability, IP54 protection grade;
- Rapid deployment, simple installation, operation and maintenance;
- The system efficiency is more than 90%;
- The system can support continuous 1C operation at most;
- Support multi machine parallel connection
- Combination of distributed deployment and centralized networking



Model1	APO-30K	APO-50K	APO-100K
AC parameters (grid mode)			
Rated power	30kw	50kw	100kw
Grid frequency	50/60Hz(±2.5Hz)		
Grid voltage	400V/480V		
AC parameters (battery mode)			
Rated output power	30kva	50kva	100kva
Output frequency	50/60Hz(±2.5Hz)		
Output voltage/switching time of parallel and off grid	400V/480V/ < 20ms (with ATS)		
Battery parameters			
Battery voltage range	200~900V		
Maximum DC current	80A	130A	260A
Battery type	Li-ion(LFP)		
Capacity	50kwh~100kwh	100kwh~500kwh	
Solar energy parameters			
PV voltage range	200-900Vdc		
Max. PV current	130A	220A	440A
MPPT efficiency	>99.50%		
System parameters			
Communication mode	RS485、CAN、Ethernet		
Working temperature	-20-50℃		
Cooling mode	Air conditioner		
Humidity	0%-95%		
Height	3000m(-1%/100m)		
IP grade	IP54		
Installation method	Outdoor cabinet - reference	5ft/10ft-reference	
Size	650*2200*750mm	2991*2591*2438mm	
Weight (kg)	1.8~3.5t	4.7~8.1t	
Warranty	5years(free);10years(options)		



AP120 Foldable Solar Panel



Folded



Efficient



Waterproof



Portable



MC4
Ports



Recyclable

Feature

- With ETFE film, durable and waterproof
- Sungold Mono solar Cells, 23.5% high conversion efficiency
- Portable and foldable, weighing 4.3kg, easy to carry with
- Adjustable kickstand case

Model	AP120
Peak Power(Pm)	120W
Solar Cell Lamination	Monocrystalline Silicon
Cell efficiency	Up to 23%
Voltage at max power (Vmp)	19.8V
Current at max power (Imp)	6.06A
Open circuit voltage(Voc)	23.7V
Short circuit current(Isc)	6.66A
Operating Temperature	-10 C ~ +65 C
Best working temperature	+25 C
Folding number	4
Dimension(unfolded)	411*1708mm/16*67inch
Dimension(folded)	411*427mm/16*16.8inch
Weight	4.3kg/9.48lb



AP200 Foldable Solar Panel



Feature

- With ETFE film, durable and waterproof
- Sungold Mono solar Cells, 23.5% high conversion efficiency
- Portable and foldable, weighing 4.3kg, easy to carry with
- Adjustable kickstand case

Model	AP120
Peak Power(Pm)	200W
Solar Cell Lamination	Monocrystalline Silicon
Cell efficiency	≥23.5%
Voltage at max power (Vmp)	20V
Current at max power (Imp)	10A
Open circuit voltage(Voc)	24V
Short circuit current(Isc)	11A
Operating Temperature	-10 C ~ +65 C
Best working temperature	+25 C
Folding number	4
Dimension(unfolded)	520*2200mm/20.5*86.6 inch
Dimension(folded)	525*520mm/20.7*20.5 inch
Weight	6.5kg/14.3lb