



Amensolar Brochure

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N3H-X Series Split Phase Inverter

Hybrid On/Off-Grid Inverter

N3H-X5-US/N3H-X8-US/N3H-X10-US

120V/240V(split phase) , 208V(2/3 phase) , 230V(single phase)



Equipped with 4 MPPT
Max. input current of
14A for each MPPT



AC coupling function,
Max. 3 pcs parallel
for on-grid and off-grid



Easy installation with
flexible configuration
plug-and-play



Enables remote intelligent
monitoring through
SOLARMAN APP



Support OEM/ODM
UL multiple listing
for customers



UL1741SA CUL1741/
UL1699B CSA 22.2



object	Description
1	BAT input/BAT output
2	WIFI
3	Communication Port
4	CTL 2
5	CTL 1
6	Load 1
7	Ground
8	PV input
9	PV output
10	Generator
11	Grid
12	Load 2



Technical Data	N3H-X5 -US	N3H-X8 -US	N3H-X10 -US
PV Input Data			
MAX.DC Input Power	7.5KW	12KW	15KW
No.of MPPT Trackers	4		
MPPT Range	120 - 430V		
MAX.DC Input Voltage	500V		
MAX.Input Current	14A×4		
Battery Input Data			
Nominal Voltage(Vdc)	48V	48V	48V
MAX.Charging/Discharging Current	120A/120A	190A/190A	190A/210A
Battery Voltage Range	40-60V		
Battery Type	Lithium and Lead Acid Battery		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
AC Output Data(On-Grid)			
Nominal Output Power Output to Grid	5KVA	8KVA	10KVA
MAX. Apparent Power Output to Grid	5.5KVA	8.8KVA	11KVA
Output Voltage Range	110-120V/220-240V split phase, 208V(2/3 phase), 230V(1 phase)		
Output Frequency	50/60Hz (45 to 54.9Hz / 55 to 65Hz)		
Nominal AC Current Output to Grid	20.8A	33.3A	41.7A
Max.AC Current Output to Grid	22.9A	36.7A	45.8A
Output Power Factor	0.8leading ...0.8lagging		
Output THDI	< 2%		
AC Output Data(Back-Up)			
Nominal. Apparent Power Output	5KVA	8KVA	10KVA
MAX. Apparent Power Output	5.5KVA	8.8KVA	11KVA
Nominal Output Voltage L-N/L1-L2	120/240V		
Nominal Output Frequency	60Hz		
Output THDU	< 2%		
Efficiency			
Europe Efficiency	>=97.8%		
MAX. Battery to Load Efficiency	>=97.2%		
Protection			
Grounding Detection	YES		
Arc Fault Protection	YES		
Island Protection	YES		
Battery Reverse Polarity	YES		
Insulation Resistor Detection	YES		
Residual Current Monitoring Unit	YES		
Output Over Current Protection	YES		
Back-up Output Short Protection	YES		
Terminal Temperature Detection	YES		
Output Over Voltage Protection	YES		
Output Under Voltage Protection	YES		
General Data			
Output Conduit	25.4mm		
PV Input Conduit	25.4mm		
BAT Input Conduit	34.5mm		
Operating Temperature Range	-25 ~ +60°C		
Relative Humidity	0-95%		
Operating Altitude	0~4000m		
Ingress Protection	IP65/NEMA 3R		
Weight	41kg		
Size (Width*Height*Depth)	430mm x 710mm x 220mm		
Cooling	Air Cooling		
Noise Emission	<38dB		
Display	LCD		
Communication With BMS/Meter/EMS	CAN, RS485		
Supported Communication Interface	RS485, WLAN, 4G (optional)		
Self-consumption at Night	< 15W (with battery enabling < 20W)		
Safety	UL1741SA all options , UL1699B, CSA 22.2		
EMC	FCC Part 15 Class		
Grid Connection Standards	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III		



N3H-X Series Split Phase Inverter

Hybrid On/Off-Grid Inverter

N3H-X5US/N3H-X8US/N3H-X10US

120V/240V(split phase) , 208V(2/3 phase) , 230V(single phase)



Equipped with 4 MPPT
Max. input current of
14A for each MPPT



AC coupling function,
Max. 3 pcs parallel
for on-grid and off-grid



Easy installation with
flexible configuration
plug-and-play



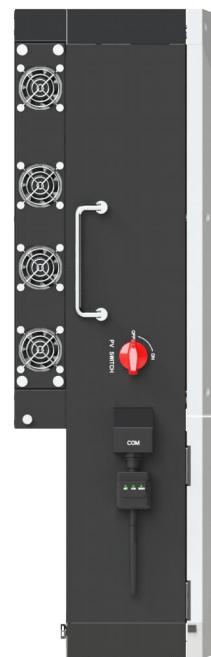
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for customers



UL1741SA CUL1741/
UL1699B CSA 22.2



Technical Data	N3H-X5US	N3H-X8US	N3H-X10US
PV Input Data			
MAX.DC Input Power	7.5KW	12KW	15KW
No.of MPPT Trackers	4		
MPPT Range	120 - 430V		
MAX.DC Input Voltage	500V		
MAX.Input Current	14A×4		
Battery Input Data			
Nominal Voltage(Vdc)	48V	48V	48V
MAX.Charging/Discharging Current	120A/120A	190A/190A	190A/210A
Battery Voltage Range	40-60V		
Battery Type	Lithium and Lead Acid Battery		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
AC Output Data(On-Grid)			
Nominal Output Power Output to Grid	5KVA	8KVA	10KVA
MAX. Apparent Power Output to Grid	5.5KVA	8.8KVA	11KVA
Output Voltage Range	110-120V/220-240V split phase, 208V(2/3 phase), 230V(1 phase)		
Output Frequency	50/60Hz (45 to 54.9Hz / 55 to 65Hz)		
Nominal AC Current Output to Grid	20.8A	33.3A	41.7A
Max.AC Current Output to Grid	22.9A	36.7A	45.8A
Output THDI	< 2%		
AC Output Data(Back-Up)			
Nominal. Apparent Power Output	5KVA	8KVA	10KVA
MAX. Apparent Power Output	5.5KVA	8.8KVA	11KVA
Nominal Output Voltage L-N/L1-L2	120/240V		
Nominal Output Frequency	60Hz		
Output Power Factor	0.8leading ...0.8lagging		
Output THDU	< 2%		
Efficiency			
Europe Efficiency	≥97.8%		
MAX. Battery to Load Efficiency	≥97.2%		
Protection			
Grounding Detection	YES		
Arc Fault Protection	YES		
Island Protection	YES		
Battery Reverse Polarity	YES		
Insulation Resistor Detection	YES		
Residual Current Monitoring Unit	YES		
Output Over Current Protection	YES		
Back-up Output Short Protection	YES		
Terminal Temperature Detection	YES		
Output Over Voltage Protection	YES		
Output Under Voltage Protection	YES		
General Data			
Output Conduit	25.4mm		
PV Input Conduit	25.4mm		
BAT Input Conduit	34.5mm		
Operating Temperature Range	-25 ~ +60°C		
Relative Humidity	0-95%		
Operating Altitude	0~4000m		
Ingress Protection	IP65/NEMA 3R		
Weight	48kg		
Size (Width*Height*Depth)	450mm x 820mm x 261mm		
Cooling	Air Cooling		
Noise Emission	<38dB		
Display	LCD		
Communication With BMS/Meter/EMS	CAN, RS485		
Supported Communication Interface	RS485, WLAN, 4G (optional)		
Self-consumption at Night	< 25W		
Safety	UL1741SA all options , UL1699B, CSA 22.2		
EMC	FCC Part 15 ClassB		
Grid Connection Standards	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III		



N3H-X Series Split Phase Inverter

Hybrid On/Off-Grid Inverter

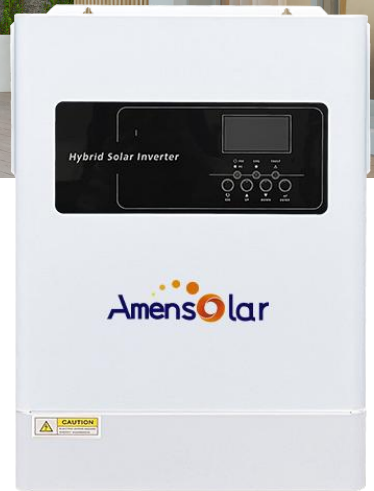
N3H-X12US

120V/240V(split phase) , 208V(2/3 phase) , 230V(single phase)

- Equipped with 4 MPPTs
Max. input current of 16A for each MPPT
- AC coupling function
Max. 3 pcs parallel for on-grid and off-grid
- Easy installation with flexible configuration
plug-and-play
- Enables remote intelligent monitoring through SOLARMAN APP
- Support OEM/ODM, UL multiple listing for customers
- UL1741SA CUL1741/ UL1699B CSA 22.2



Model	N3H-X12US
PV input	
Max.DC input power (kW)	18
No. of MPPT trackers	4
MPPT voltage range (V)	120~430
MAX. DC input voltage (V)	500
MAX. input current per MPPT (A)	16/16/16/16
MAX. short current per MPPT (A)	22
Battery input	
Nominal voltage (V)	48
MAX.charging/discharging current (A)	250/260
Battery voltage range (V)	40-58
Battery type	Lithium /Lead-acid
Charging controller	3-Stage with equalization
AC output(on-grid)	
Nominal output power output to grid (kVA)	12
MAX. apparent power output to grid (kVA)	13.2
Nominal AC voltage(L-N/L1-L2) (V)	110-120V/220-240V split phase, 208V(2/3 phase), 230V(1 phase)
Nominal AC frequency(Hz)	50/60
Nominal AC current (A)	50
Max. AC current (A)	55
Max. grid passthrough current (A)	200
Output THDi	<3%
AC output(back-up)	
Nominal. apparent power (kVA)	12
Max. apparent power (no PV) (kVA)	12
Max. apparent power (with PV) (kVA)	13.2
Nominal output voltage(V)	120/240
Nominal output frequency (Hz)	60
Output power factor	0.8leading~0.8lagging
Output THDu	<2%
Protection	
Ground detection	Yes
Arc fault protection	Yes
Island protection	Yes
Insulation resistor detection	Yes
Residual current monitoring unit	Yes
Output over current protection	Yes
Back-up output short protection	Yes
Output over voltage protection	Yes
Output under voltage protection	Yes
General data	
Mppt efficiency	99.9%
Europe efficiency(PV)	96.2%
Max. PV to grid efficiency(PV)	96.5%
Max. battery to load efficiency	94.6%
Max. PV to battery charging efficiency	95.8%
Max. grid to battery charging efficiency	94.5%
Operating temperature range (°C)	-25~+60
Relative humidity	0-95%
Operating altitude	0~4,000m(Derating above 2,000m altitude)
Ingress protection	IP65/NEMA 3R
Weight (kg)	53
Weight (with breaker) (kg)	56
Dimensions W*H*D (mm)	495 x 900 x 260
Cooling	Air Cooling
Noise emission (dB)	38
Display	LCD
Communication with BMS/Meter/EMS	RS485, CAN
Supported communication interface	RS485, 4G (optional), Wi-Fi
Self-consumption	<25W
Safety	UL1741, UL1741SA&SB all options, UL1699B, CSA -C22.2 NO.107.1-01,RSD(NEC690.5,11,12),
EMC	FCC part 15 classB
Grid connection standards	IEEE 1547, IEEE 2030.5, HECO Rule 14H, CA Rule 21 Phase I,II,III,CEC, CSIP,SRD2.0,SGIP,OGPe,NOM,California Prob65
Other data	
Backup conduit	2"
Grid conduit	2"
AC solar conduit	2"
PV input conduit	2"
Bat input conduit	2"
PV switch	Integrated



NIF-A Series Off-grid Inverter

NIF -A3US Split Phase Inverter

[PV 120-500Vdc]

3KW 110V/120Vac Output



Pure sine wave



Power factor 1.0



Capable of working without the battery



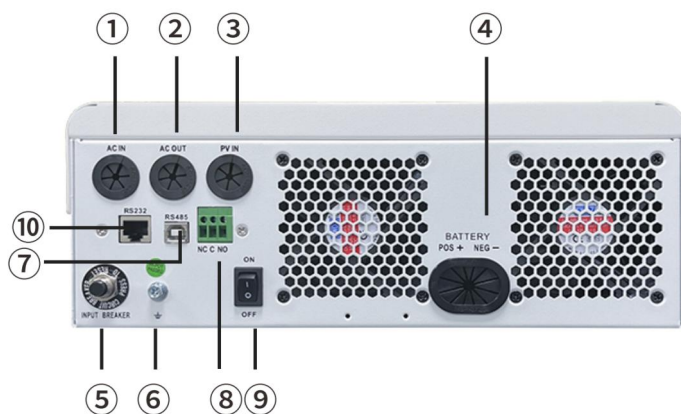
Enables remote intelligent monitoring by SmartESS APP



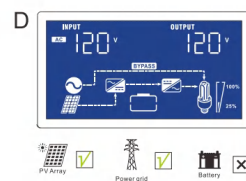
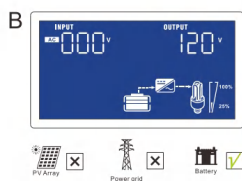
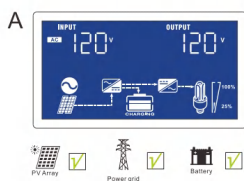
Parallel operation with up to 12 units in 1phase/3phase/split phase



EQ function to optimize battery performance and extend the lifecycle



1. AC input
2. AC output
3. PV input
4. Battery input
5. Circuit breaker
6. Grounding
7. RS485 communication port
8. Dry contact (Optional)
9. Power on/off switch
10. RS232 communication port



MODEL	N1F-A3US
Capacity	3KVA/3KW
Parallel Capability	YES, 12 Units
Split Phase Operation	YES, (1 set : L1 N -110V; Parallel 2 sets : L1 L2 N -110V/220V)
INPUT	
Nominal Voltage	110/120VAC
Acceptable Voltage Range	95- 140VAC(For personal Computer);65- 140VAC(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
OUTPUT	
Nominal Voltage	110/120VAC±5%
Surge Power	6000VA
Frequency	50/60Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency(PV to INV)	97%
Peak Efficiency(Battery to INV)	93%
Overload Protection	5s@>= 150%load;10s@110%~ 150%load
Crest Factor	3:1
Admissible Power Factor	0.6~ 1(inductive or capacitive)
BATTERY INPUT	
Battery Voltage	48VDC
Floating Charge Voltage	48-62V
OverCharge Protection	48-64V
Charging Method	CC/CV
SOLAR CHARGER & AC CHARGER	
Max.PV Array Powe	5000W
Solar Charger Type	MPPT
Max.PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	120VDC~450VDC
Max.Solar Input Current	18A
Max.Solar Charge Current	80A
Max.AC Charge Current	60A
Max.Charge Current	80A
PHYSICAL	
Dimensions , DxWxH	448x315x122mm
Package Dimensions , DxWxH	540x390x217mm
Net Weight	10KG
Communication Interface	RS485/RS232/Dry-contact
ENVIRONMENT	
Operating Temperature Range	- 10℃ to 50℃
Storage Temperature	- 15℃~50℃
Humidity	5%to 95%Relative Humidity(Non-condensing)



NIF-A Series Off-grid Inverter

NIF -A5.5P

[PV 120-500Vdc]



5.5KW 220V/230Vac Output

Pure sine wave

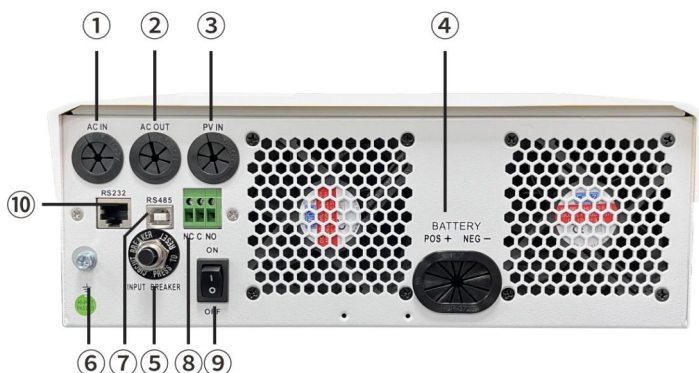
Power factor 1.0

Capable of working without battery

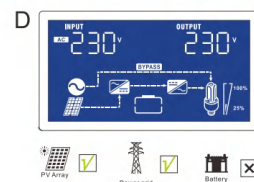
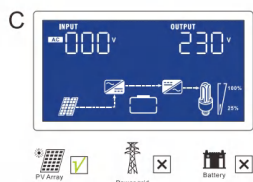
Enables remote intelligent monitoring by SmartESS APP

Parallel operation up to 12 units in 1phase or 3phase

EQ function to optimize battery performance and extend the lifecycle



1. AC input
2. AC output
3. PV input
4. Battery input
5. Circuit breaker
6. Grounding
7. RS485 communication port
8. Dry contact
9. Power on/off switch
10. RS232 communication port



MODEL	N1F-A5.5P
Capacity	5.5KVA/5.5KW
Parallel Capability	YES,12 Units
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
OUTPUT	
Nominal Voltage	220/230VAC±5%
Surge Power	11000VA
Frequency	50/60Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency(PV to INV)	96%
Peak Efficiency(Battery to INV)	93%
Overload Protection	5s@>= 150%load;10s@110%~ 150%load
Crest Factor	3:1
Admissible Power Factor	0.6~ 1(inductive or capacitive)
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Max.PV Array Powe	5500W
Max.PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	120VDC~450VDC
Max.Solar Input Current	18A
Max.Solar Charge Curren	100A
Max.AC Charge Current	60A
Max.Charge Current	100A
PHYSICAL	
Dimensions , DxWxH	448x295x120mm
Package Dimensions , DxWxH	560x375x190mm
Net Weight	10KG
Communication Interface	RS485/RS232/Dry-contact
ENVIRONMENT	
Operating Temperature Range	- 10°C to 50°C
Storage Temperature	- 15°C~50°C
Humidity	5%to 95%Relative Humidity(Non-condensing)



NIF-A Series Off-grid Inverter

NIF-A6.2P

[PV 60-500Vdc]

6.2KW 220/230VAC±5% Output



Pure sine wave



Power factor 1.0



Capable of working without the battery



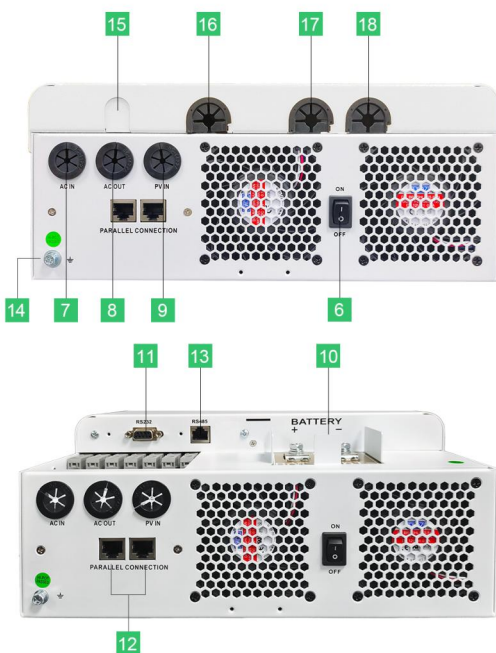
Enables remote intelligent monitoring by SmartESS APP



Parallel operation up to 12 units in 1phase or 3phase



EQ function to optimize battery performance and extend the lifecycle



1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. AC input
8. AC output
9. PV input
10. Battery input
11. RS232 communication port
12. Parallel communication port (only for parallel model)
13. RS485 communication port
14. Grounding
15. WiFi module avoidance hole (Only use WiFi module models to remove)
16. RS485 communication line outlet
17. Battery positive outlet hole
18. Battery negative outlet hole



MODEL	N1F-A6.2P
Capacity	6.2KVA/6.2KW
Parallel Capability	YES,12 Units
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer); 90-280vac(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
OUTPUT	
Nominal Voltage	220/230VAC±5%
Surge Power	12400VA
Frequency	50/60Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency	94%
Overload Protection	5s@>= 150%load;10s@110%~ 150%load
Crest Factor	3:1
Admissible Power Factor	0.6~ 1(inductive or capacitive)
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
Solar Charger &AC Charger	
Solar Charger Type	MPPT
Max.PV Array Power	6500W
Max.PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60VDC~450VDC
Max.Solar Input Current	27A
Max.Solar Charge Current	120A
Max.AC Charge Current	80A
Max.Charge Current	120A
PHYSICAL	
Dimensions , DxWxH	450x300x130mm
Package Dimensions , DxWxH	540x390x210mm
Net Weight	9.6KG
Communication Interface	RS232/RS485/Dry-contact
ENVIRONMENT	
Operating Temperature Range	- 10℃~55℃
Storage Temperature	- 15℃~60℃
Humidity	5%to 95%Relative Humidity(Non-condensing)



N1F-A Series Off-grid Inverter

N1F-A3.5/24E N1F-A6.2E

[PV 60-500Vdc]



3.5KW/6.2KW 220V/230Vac Output



Pure sine wave



Power factor 1.0



Capable of working without battery



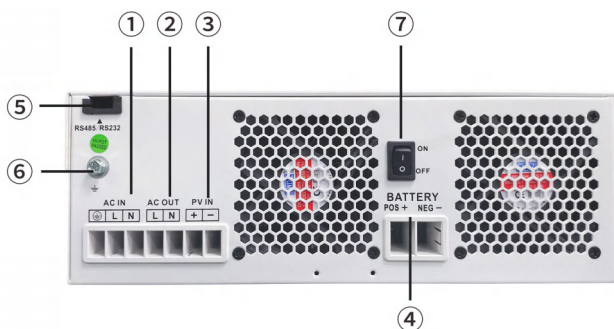
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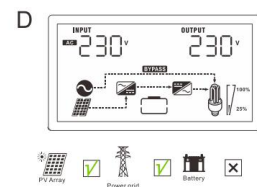
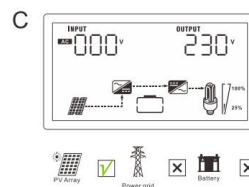
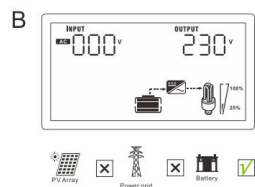
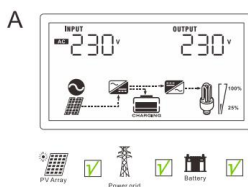
Lithium battery activation function, which can be triggered by mains or PV



EQ function to optimize battery performance and extend the lifecycle



1. AC input
2. AC output
3. PV input
4. Battery input
5. RS232 / RS485 communication port
6. Grounding
7. Power on/off switch



MODEL	N1F-A3.5/24E	N1F-A6.2E
Capacity	3.5KVA/3.5KW	6.2KVA/6.2KW
Parallel Capability	NO	NO
INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)	
Frequency	50/60 Hz(Auto sensing)	
OUTPUT		
Nominal Voltage	220/230VAC±5%	
Surge Power	7000VA	12400VA
Frequency	50/60Hz	
Waveform	Pure Sine wave	
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)	
Peak Efficiency(PV to INV)	96%	
Peak Efficiency(Battery to INV)	93%	
Overload Protection	5s@>= 150%load;10s@110%~ 150%load	
Crest Factor	3:1	
Admissible Power Factor	0.6~ 1(inductive or capacitive)	
BATTERY		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
OverCharge Protection	33VDC	63VDC
Charging Method	CC/CV	
Lithium Battery Activation	YES	
Lithim battery Communication	YES(RS485)	
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Max.PV Array Powe	4000W	6500W
Max.PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	60VDC~500VDC	
Max.Solar Input Current	15A	27A
Max.Solar Charge Current	100A	120A
Max.AC Charge Current	80A	80A
Max.Charge Current(PV+AC)	100A	120A
PHYSICAL		
Dimensions , DxWxH	358*295* 100mm	438*295* 105mm
Package Dimensions , DxWxH	465*380* 175mm	560*375* 185mm
Net Weight	7KG	9KG
Communication Interface	RS232+RS485	
ENVIRONMENT		
Operating Temperature Range	- 10℃ to 50℃	
Storage Temperature	- 15℃~50℃	
Humidity	5%to 95%Relative Humidity(Non-condensing)	



N3H-A Series Three Phase Inverter

Hybrid On/Off-Grid Inverter

N3H-A8.0/N3H-A10.0/N3H-A12.0



Rated input/output voltage of 3-phase, earth at 230/400 volts alternating current



Achieved an impressive MPPT reaching up to 99.5%



Zero Export and VSG Application



Offers flexible configuration options, seamless transferring under 10ms



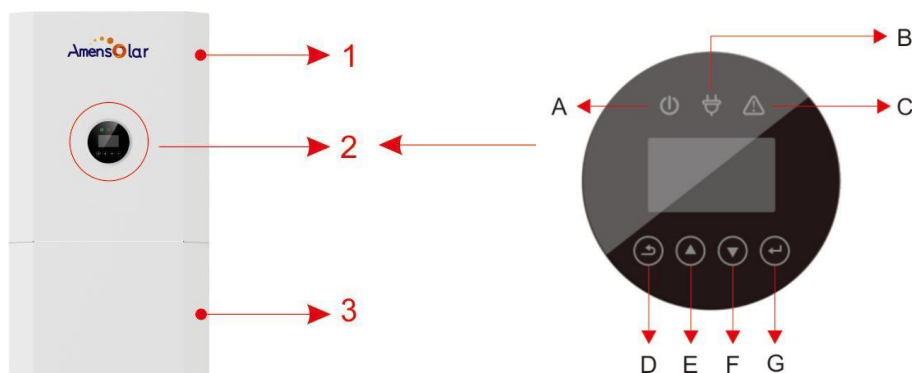
Enables remote intelligent monitoring by SOLARMAN APP



Built-in fuse protection



IP65 Rated



Object	Description	Object	Name	Description
1	Hybrid Inverter	A	Indicator LED	Grid connection
		B		Off-grid
		C		Red: The inverter is in fault.
2	EMS Display Screen	D	Button Function	Return Button: Escape from current interface or function. Enter the setting interface.
		E		Up button: Move cursor to upside or increase value.
3	Cable Box (connected to Inverter)	F		Down Button: Move cursor to downside or decrease value.
		G		ENT Button: Confirm the selection.



Model	N3H-A8.0	N3H-A10.0	N3H-A12.0
PV input parameter			
Maximum input voltage	1100 Vd.c .		
Rated voltage	720Vd.c .		
MPPT voltage range	140~ 1000 Vd.c .		
MPPT voltage range (full load)	380~850 Vd.c .	420~850 Vd.c .	480~850 Vd.c .
Maximum input current	2* 15 Ad.c .		
PV ISC	2*20 Ad.c .		
Battery input/output parameter			
Battery type	Lithium or lead-acid		
Input voltage range	44~58 Vd.c .		
Rated voltage	51.2Vd.c .		
Maximum input/output voltage	58 Vd.c .		
Maximum charging current	160 Ad.c .		
Maximum charging power	8000 W		
Maximum discharging current	160 Ad.c .	200 Ad.c .	
Maximum discharging power	8000 W	10000 W	
Grid parameter			
Rated input/output voltage	3/N/PE, 230/400 Va.c .		
Rated input/output frequency	50 Hz		
Maximum input current	25 Aa.c .		
Maximum input active power	16000 W	17800 W	
Maximum input apparent power	16000 VA	17800 VA	
Maximum input active power from grid to battery	8600 W		
Rated output current	11.6 Aa.c .	14.5 Aa.c .	17.4 Aa.c .
Maximum continuous output current	12.8 Aa.c .	16.0 Aa.c .	19.2 Aa.c .
Rated output active power	8000 W	10000 W	12000 W
Maximum output apparent power	8800 VA	11000 VA	13200 VA
Maximum output active power from battery to grid (without PV input)	7500 W	9300 W	
Power factor	0.9 leading~0.9 lagging		
Backup terminal parameter			
Rated output voltage	3/N/PE, 230/400 Va.c .		
Rated output frequency	50 Hz		
Rated output current	10.7 Aa.c .	13.3 Aa.c .	
Maximum continuous output current	11.6 Aa.c .	14.5 Aa.c .	
Rated output active power	7360 W	9200 W	
Maximum output apparent power	8000 VA	10000 VA	



A Series LifePo4 Battery

A5120 Rack Mounted

51.2V/100Ah/5.12KWh



Cycle life

>6000 Cycles @ 90%DOD



Consistency of battery cells

Active equalization (3A)
Settable charging voltage



2U Thickness

88mm: Lager capacity in limited space
Multi installation methods



Scalable: paralleled 16 sets

Battery: 5.12kWh; Cabinet: 51.2kWh;
Paralled 6 cabinets 307.2kWh



Intelligent BMS

Wider compatibility;



Car-grade LiFePo4 battery

Compact, safe, stable, flexible



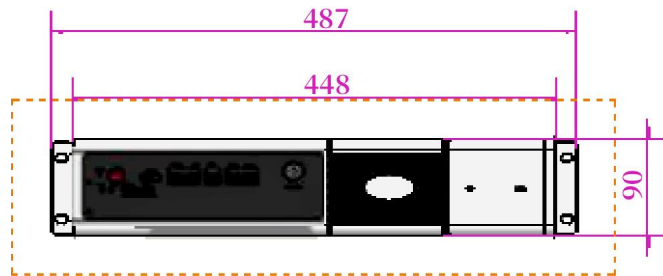
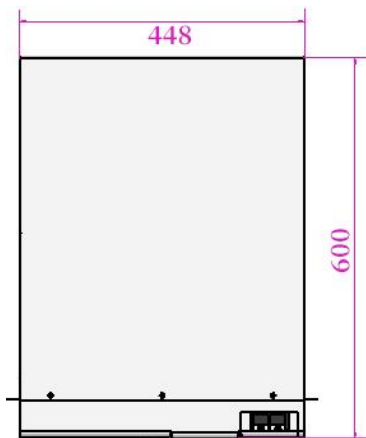
Auto-heating function

Heating below 0 C
BMS automatic management

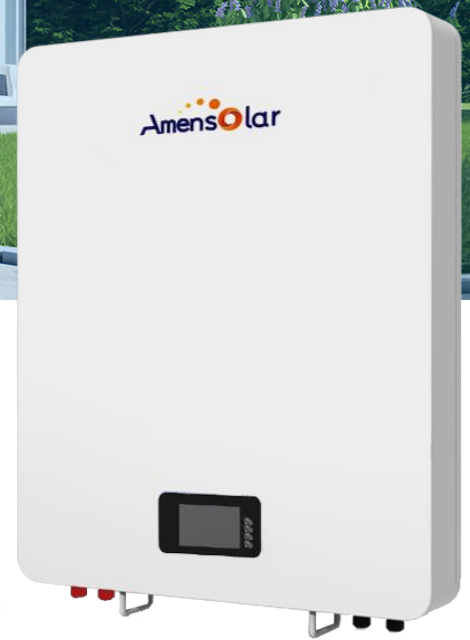


Customizable

Indoor or outdoor cabinets as request



Model	A5120
Certificate Model	YNJB16S100KX - L
Nominal Voltage	51.2V
Voltage Range	44.8V~57.6V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Charge Current	50A
Max Charge Current	100A
Discharge Current	50A
Max Discharge Current	100A
Charge Temperature	0°C~+55°C
Discharge Temperature	-20°C~+55°C
Battery Equalization	Active 3A
Heating Function	BMS automatic management when charging temperature below 0°C (Optional)
Relative Humidity	5% - 95%
Dimension(L*W*H)	496*600*88mm
Weight	43±0.5KG
Communication	CAN, RS485
Enclosure Protection Rating	IP20
Cooling Type	Natural Cooling
Cycle Life	≥6000
Recommend DOD	90%
Design Life	20+ Years (25°C@77°F)
Safety Standard	CUL1973/UL1973/CE/IEC62619/UN38.3
Max. Pieces of Parallel	16



A Series LifePo4 Battery

AW5120 Wall Mounted

51.2V/100Ah/5.12KWh



Cycle life

>6000 Cycles @ 90%DOD



Consistency of battery cells

Active equalization (3A)
Settable charging voltage



2U Thickness; wall mounted

88mm: Larger capacity in limited space



Scalable: paralleled 16 sets

Battery: 5.12kWh - 81.9kWh



Intelligent BMS

Wider compatibility



Car-grade LiFePo4 battery

Compact, safe, stable, flexible



Auto-heating function

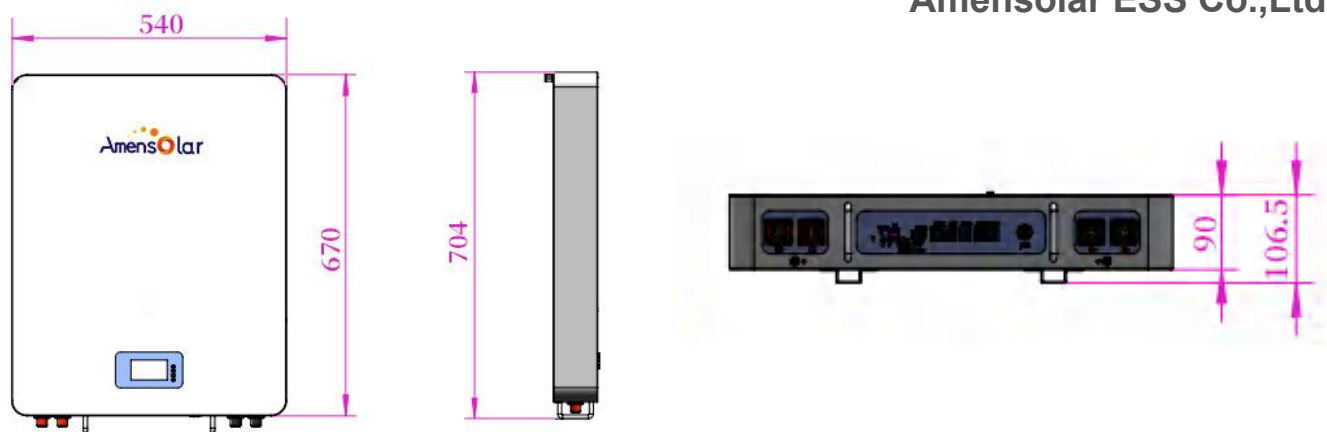
Heating below 0 C
BMS automatic management



Touch screen

View battery information
Set communication protocol and DIP



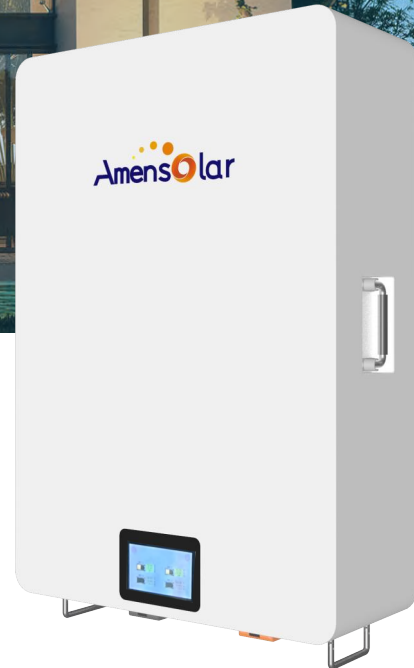


Model	AW5120
Certificate Model	YNBB16S100KX-L
Nominal Voltage	51.2V
Voltage Range	44.8V~57.6V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Charge Current	50A
Max Charge Current	100A
Discharge Current	50A
Max Discharge Current	100A
Charge Temperature	0°C~+55°C
Discharge Temperature	-20°C~+55°C
Battery Equalization	Active 3A
Heating Function	BMS automatic management when charging temperature below 0°C (Optional)
Relative Humidity	5% - 95%
Dimension(L*W*H)	540*704*94mm
Weight	45±0.5KG
Communication	CAN, RS485
Enclosure Protection Rating	IP21
Cooling Type	Natural Cooling
Cycle Life	≥6000
Recommend DOD	90%
Design Life	20+ Years (25°C@77°F)
Safety Standard	CUL1973/UL1973/CE/IEC62619/UN38.3
Max. Pieces of Parallel	16



A Series LifePo4 Battery POWER BOX Wall Mounted

51.2V/200Ah/10.24KWh



Cycle life

>6000 Cycles @ 90%DOD



Consistency of battery cells

Active equalization (3A)
Settable charging voltage



Wall mounted

Lager capacity in limited space



Scalable: paralleled 8 sets

Battery: 10.24kWh;
Max.energy: 81.92kWh;



Intelligent BMS

Wider compatibility;
Automatic DIP Setting



Car-grade LiFePo4 battery

Compact, safe, stable, flexible



Auto-heating function

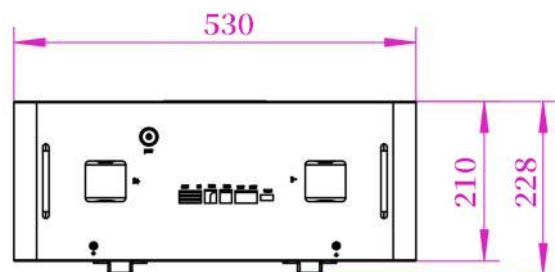
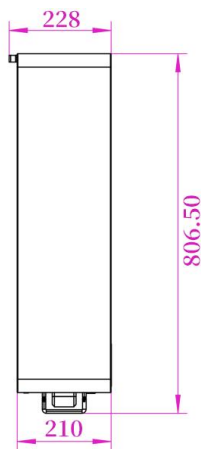
Heating below 0 C
BMS automatic management



Touch screen

View battery information
Set communication protocol and DIP





Model	POWER BOX A5120X2
Certificate Model	YNJB16S100KX-L-2PD
Nominal Voltage	51.2V
Voltage Range	44.8V~57.6V
Nominal Capacity	200Ah
Nominal Energy	10.24kWh
Charge Current	100A
Max Charge Current	200A
Discharge Current	100A
Max Discharge Current	200A
Charge Temperature	0°C~+55°C
Discharge Temperature	-20°C~+55°C
Battery Equalization	Active 3A
Heating Function	BMS automatic management when charging temperature below 0°C (Optional)
Relative Humidity	5% - 95%
Dimension(L*W*H)	530*760*210mm
Weight	97±0.5KG
Communication	CAN, RS485
Enclosure Protection Rating	IP21
Cooling Type	Natural Cooling
Cycle Life	≥6000
Recommend DOD	90%
Design Life	20+ Years (25°C@77°F)
Safety Standard	CUL1973/UL1973/CE/IEC62619/UN38.3
Max. Pieces of Parallel	8



A Series LifePo4 Battery POWER WALL Wall Mounted

51.2V/200Ah/10.24KWh



Cycle life

>6000 Cycles @ 90%DOD



Consistency of battery cells

Active equalization (3A)
Settable charging voltage



2U design; Wall mounted

Larger capacity in limited space



Scalable: paralleled 8 sets

Battery: 10.24kWh;
Max. energy: 81.92kWhs;



Intelligent BMS

Wider compatibility;
Automatic DIP Setting



Car-grade LiFePo4 battery

Compact, safe, stable, flexible



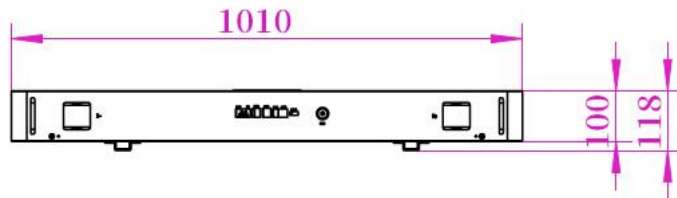
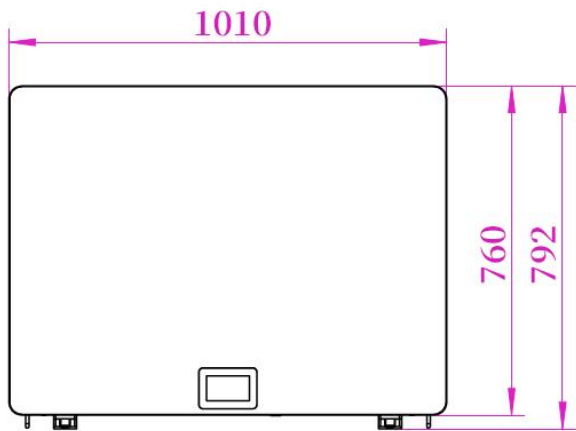
Auto-heating function

Heating below 0°C
BMS automatic management



Touch screen

View battery information
Set communication protocol and DIP



Model	POWER WALL A5120X2
Certificate Model	YNJB16S100KX-L-2PP
Nominal Voltage	51.2V
Voltage Range	44.8V~57.6V
Nominal Capacity	200Ah
Nominal Energy	10.24kWh
Charge Current	100A
Max Charge Current	200A
Discharge Current	100A
Max Discharge Current	200A
Charge Temperature	0°C~+55°C
Discharge Temperature	-20°C~+55°C
Battery equalization	Active 3A
Heating function	BMS automatic management when charging temperature below 0°C (Optional)
Relative Humidity	5% - 95%
Dimension(L*W*H)	1060*800*100mm
Weight	90±0.5KG
Communication	CAN, RS485
Enclosure Protection Rating	IP21
Cooling Type	Natural Cooling
Cycle Life	≥6000
Recommend DOD	90%
Design Life	20+ Years (25°C@77°F)
Safety Standard	CUL1973/UL1973/CE/IEC62619/UN38 .3
Max. Pieces of Parallel	8



AM Series LifePo4 Battery

AM5120S Rack/Wall Mounted

51.2V/100Ah/5.12KWh



Cycle life

>6000 Cycles @ 90%DOD



Consistency of battery cells

Active equalization (3A)
Settable charging voltage



Touch screen

View battery information
Set communication protocol and DIP



Scalable: paralleled 16 sets

Battery: 5.12kWh; Cabinet: 51.2kWh;
Paralleled 6 cabinets 307.2kWh



Intelligent BMS

Wider compatibility;



Car-grade LiFePo4 battery

Compact, safe, stable, flexible



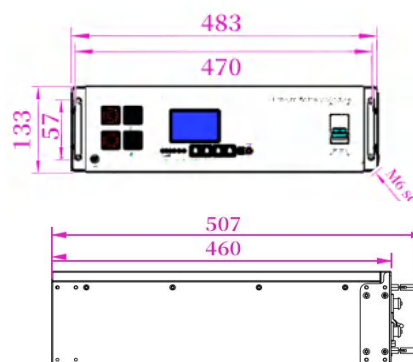
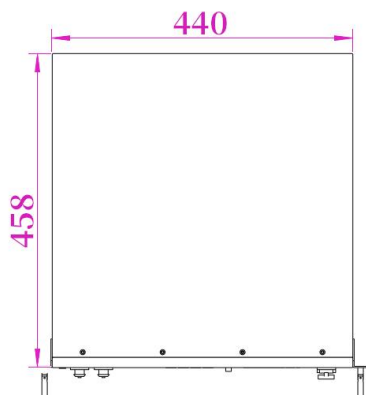
Auto-heating function

Heating below 0 C
BMS automatic management



Customizable

Indoor or outdoor cabinets as request



Model	AM5120S
Nominal Voltage	51.2V
Voltage Range	44.8V~57.6V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Charge Current	50A
Max Charge Current	100A
Discharge Current	50A
Max Discharge Current	100A
Charge Temperature	0°C~+55°C
Discharge Temperature	-20°C~+55°C
Battery Equalization	Active 3A
Heating Function	BMS automatic management when charging temperature below 0°C (Optional)
Relative Humidity	5% - 95%
Dimension(L*W*H)	442*480*133mm
Weight	45±1KG
Communication	CAN, RS485
Enclosure Protection Rating	IP21
Cooling Type	Natural Cooling
Cycle Life	≥6000
Recommend DOD	90%
Design Life	20+ Years (25°C@77°F)
Safety Standard	CE/UN38.3
Max. Pieces of Parallel	16



AM Series LifePo4 Battery AMW10240 Wall/Floor Mounted

51.2V/206Ah/10.547KWh



Cycle life
>6000 Cycles @ 90%DOD



Consistency of battery cells
Active equalization (3A)
Settable charging voltage



Intelligent BMS
Wider compatibility



Scalable: paralleled 16 sets
Battery: 10.55KWH---168.75KWH

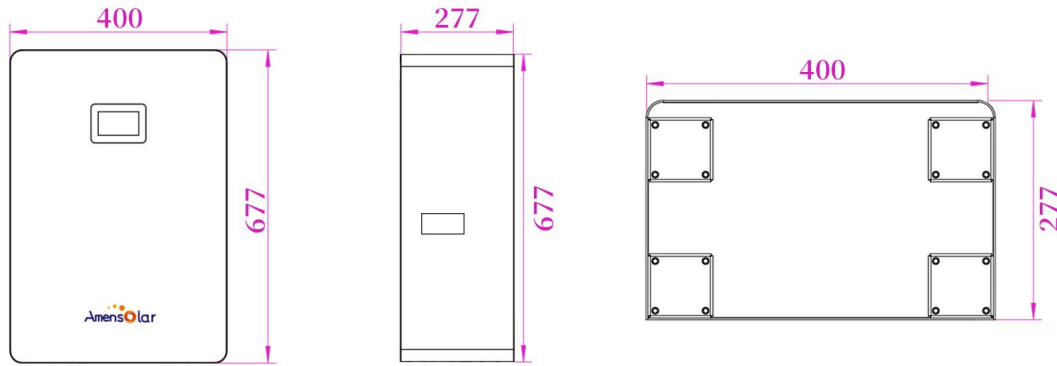


Multiple installation method
Wall mounted, Floor mounted



Touch screen
View battery information
Set communication protocol and DIP





Model	AMW10240
Nominal Voltage	51.2V
Voltage Range	44.8V~57.6V
Nominal Capacity	206Ah
Nominal Energy	10547Wh
Charge Current	100A
Max Charge Current	200A
Discharge Current	100A
Max Discharge Current	200A
Charge Temperature	0℃~+55℃
Discharge Temperature	-20℃~+55℃
Battery Equalization	Active:3A
Heating Function	BMS automatic control,heating is turned on at < 0℃
Relative Humidity	5% - 95%
Dimension(L*W*H)	400*277*672mm
Weight	82±1KG
Communication	External:CAN, RS485
Enclosure Protection Rating	IP54
Cooling Type	Natural Cooling
Cycle Life	≥6000
Recommend DOD	90%
Design Life	20+ Years (25℃@77°F)
Safety Standard	CE/UN38 .3
Max. Pieces of Parallel	16




AML Series LifePo4 Battery


AML12-100/AML12-120/AML12-150/AML12-200


DEEP CYCLE RECHARGABLE BATTERY


12.8V/100AH/1280WH, 12.8V/120AH/1536WH, 12.8V/150AH/1920WH, 12.8V/200AH/2560WH



 **Parallel**
Support 4 pcs series and 4 pcs parallel

 **Cycle life**
>4000 Cycles @ 90%DOD

 **Smart design**
IP65 Waterproof and moisture-proof

 **OEM Service**
Logo branding, Custom case color

Model	AML12-100	AML12-120	AML12-150	AML12-200
Electrical Parameter				
Battery Type	LiFePO4 (LITHIUM IRON PHOSPHATE)			
BMS	Built-in BMS			
Norminal Energy	1280WH	1536WH	1920WH	2560WH
Norminal Capacity	100Ah	120Ah	150Ah	200Ah
Norminal Voltage	12.8V	12.8V	12.8V	12.8V
Cycle Life	>4000			
Charge Parameter				
DC Normal Charge Voltage	14.4-14.6V			
Recommended Charge Current	<0.2C			
Allowed Max.Charge Current	100A	120A	150A	200A
Charge Cut-off Voltage	14.6±1Vdc			
Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C(CC/CV)			
Discharge Parameter				
Continuous Discharge Current	0.5C	0.5C	0.5C	0.5C
Allowed Max. Discharge Current	100A	120A	150A	200A
Discharge Cut-off Voltage	10V			
Max. Pulse Current Discharge	200A10S	240A10S	300A10S	400A10S
Environmental & Mechanical Parameter				
Charge Temperature	0°C to 55°C(32°F to131°F)			
Discharge Temperature	-20°C to 60°C(4°F to 140°F)			
Enclosure Protection Level	IP65			
Case Material	ABS			
Dimensions (mm)	307*169*208	307*169*208	329*170*214	483*170*240
Weight (kg)	11kg	13kg	15kg	21kg
Parallel & Series	Support 4 pcs series and 4 pcs parallel			



S Series LifePo4 Battery

S52100 Rack Mounted

51.2V/100Ah/5.12KWh



LiFePO4 Prismatic Cell



Cycle life

>6000 Cycles @ 90%DOD



Intelligent BMS
Wider compatibility



Scalable: paralleled 16 sets

Battery: 5.12kWh - 81.92kWh



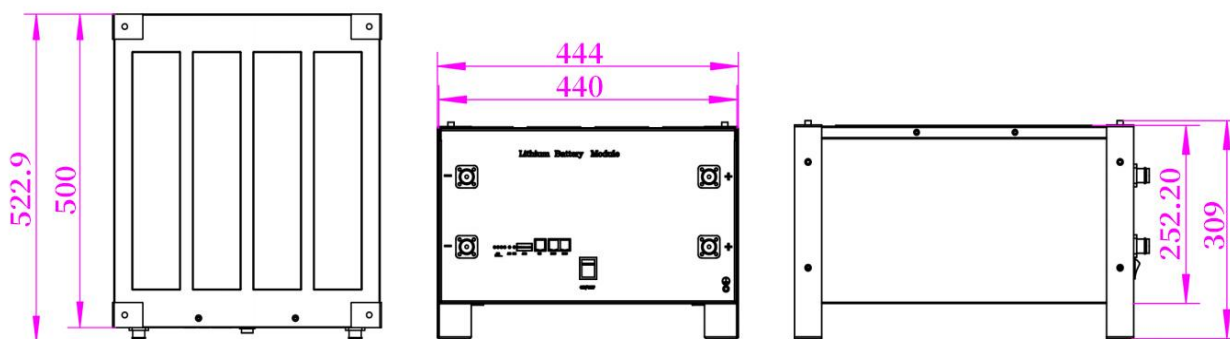
Compact Design and
Safety Protection



Customizable

Indoor or outdoor cabinets
as request





Model	S52100
Nominal Voltage	51.2V
Voltage Range	44.8V~58.4V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Charge Current	50A
Max Charge Current	100A
Discharge Current	50A
Max Discharge Current	100A
Charge Temperature	0°C~+55°C
Discharge Temperature	-10°C~+55°C
Relative Humidity	5% - 95%
Dimension(L*W*H mm)	523*446*312±2mm
Weight(KG)	65±2KG
Communication	CAN, RS485
Enclosure Protection Rating	IP52
Cooling Type	Natural Cooling
Cycle Life	≥6000
Recommend DOD	90%
Design Life	20+ Years (25°C@77°F)
Safety Standard	CE/UN38.3
Max. Pieces of Parallel	16



S Series LifePo4 Battery

S52200 Rack/Stand Mounted

2V/200Ah/10.24KWh



Cycle life
>6000 Cycles @ 90%DOD



Consistency of battery cells
Active equalization (3A)
Settable charging voltage



Intelligent BMS
Wider compatibility;



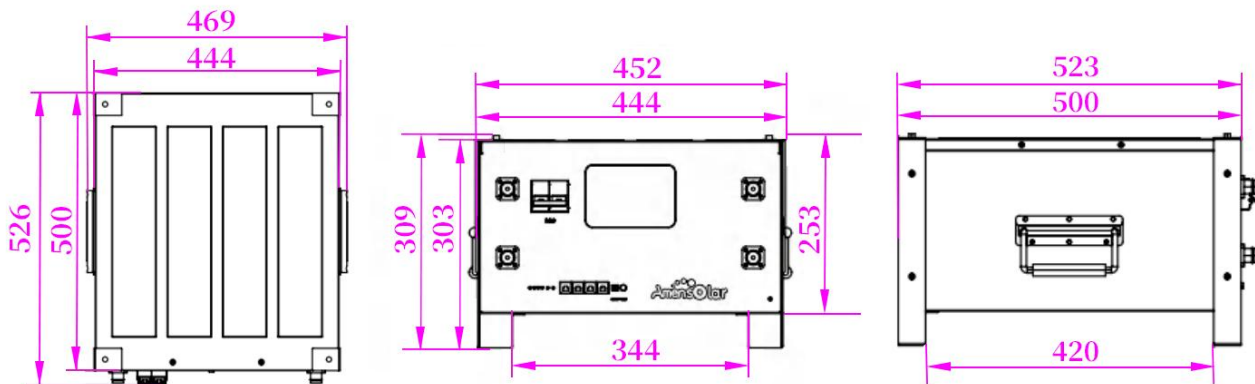
Scalable: paralleled 16 sets
Battery: 10.24kWh - 163.84kWh



Compact Design and Safety Protection



Touch screen
View battery information
Set communication protocol and DIP



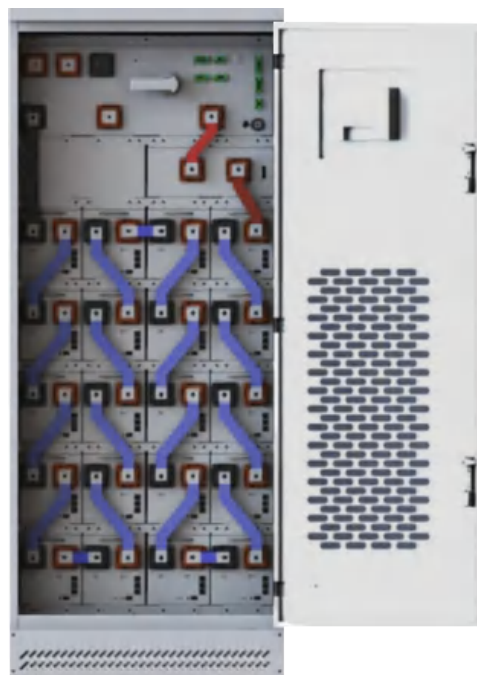
Model	S52200
Nominal Voltage	51.2V
Voltage Range	44.8V~58.4V
Nominal Capacity	200Ah
Nominal Energy	10.24kWh
Charge Current	100A
Max Charge Current	200A
Discharge Current	100A
Max Discharge Current	200A
Charge Temperature	0°C~+55°C
Discharge Temperature	-10°C~+55°C
Battery Equalization	Active 3A
Relative Humidity	5% - 95%
Dimension(L*W*H)	Battery: 444*500*253mm Including Rackets: 469*526*309mm
Weight	85±1KG
Communication	CAN, RS485
Enclosure Protection Rating	IP52
Cooling Type	Natural Cooling
Cycle Life	≥6000
Recommend DOD	90%
Design Life	20+ Years (25°C@77°F)
Safety Standard	CE/UN38 .3
Max. Pieces of Parallel	16

Uninterruptible Power Supply(UPS)

HP-160S050-600H 10C500A

25.6kWh Energy Storage

Support 10C 500A Discharge



Battery Module	AM2650H
Rated voltage	25.6V
Voltage range	21.5V-28.8V
Battery cell	3.2W50Ah
Series & Parallels	8S1P
Rated capacity	50Ah
Energy	1.28KWh
Maximum continuous discharge current	500A
Peak discharge current	600A/10S
Maximum charge Current	50A
Maximum discharge power	10750w
Dimension	180mm*550mm*185mm
Weight	20KG
Passive equalization	≤300mA
Thermal management	Natural cooling/air cooling



Lithium iron phosphate battery cell, long cycle life, safer



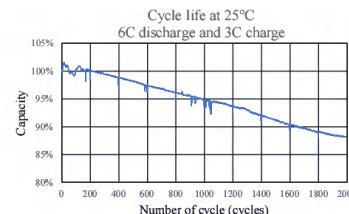
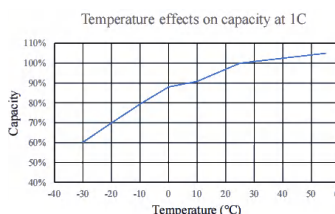
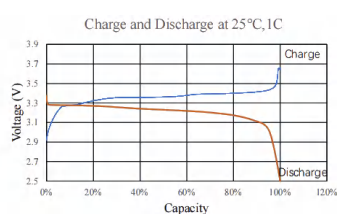
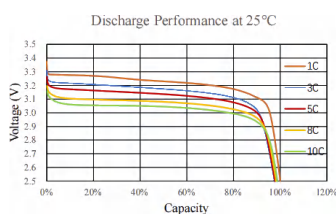
300mA high current passive and active equalization to maintain the consistency of battery cells

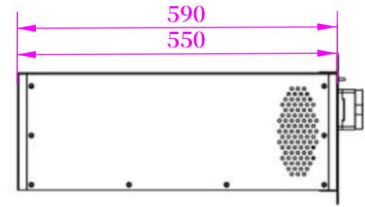
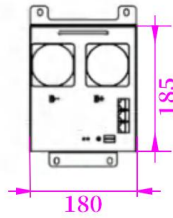


Modular design to support the series under multi-level voltages, more convenient

Battery Performance Data (25.6V50Ah)

Time	5min	10min	15min
Constant power(W)	10750	6912	4850
Constant current(A)	463	298	209





Model	HP-160S050-600H10C500A	
Item	Parameter	Remarks
Rated voltage	512V	358V/384V/460V/614V as request
Voltage range	430V-576V	Depending on the number of modules "n", the voltage range is 21.54-3.6V*n
Floating charge voltage	550V	
Battery cell	3.2V50Ah	
Series&Parallels	160S1P	Single Battery 8S1P
Battery quantity	20 pcs	YNJA8S50CB-H (14-24 pcs in series as request)
Rated capacity	50Ah	
Energy	25.6KWh	
Maximum continuous discharge current	500A	
Peak discharge current	600A/10S	
Maximum charge current	50A	Suggest charge current<25A
Maximum discharge power	215KW	
Output mode	P+/P-	P+/N/P-(as request)
Output dry contact	Charge/Discharge	
Display screen	7 inch	
Parallel	Support	
Communication	CAN/RS485	
Short circuit current	5000A	
Cycle life (@25°C,1C/1C,DOD100%)	>3000	
Operating ambient temperature	0°C-35°C	
Operating ambient humidity	65±25%R.H.	
Operating Temperature	Charge:0°C~55°C	
	Discharge:-20°C~65°C	
Dimension	800mm*700mm*1800mm	
Weight	450KG	

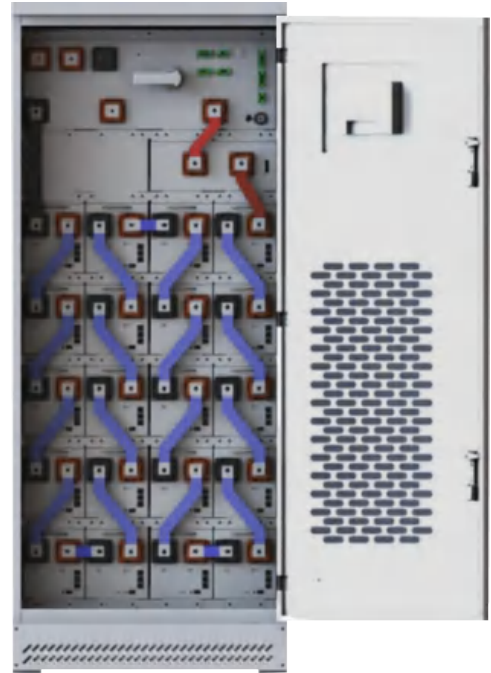
Uninterruptible Power Supply(UPS)

MP-160S100-600M 5C500A

51.2KWh Energy Storage

Support 5C 500A Discharge

Battery Module	AM26100M
Rated voltage	25.6V
Voltage range	21.5V-28.8V
Battery cell	3.2W100Ah
Series & Parallels	8S1P
Rated capacity	100Ah
Energy	2.56KWh
Maximum continuous discharge current	500A
Peak discharge current	600A/10S
Maximum charge Current	100A
Maximum discharge power	10750w
Dimension	180mm*550mm*240mm
Weight	25KG
Passive equalization	≤300mA
Thermal management	Natural cooling/air cooling



Lithium iron phosphate battery cell, long cycle life, safer



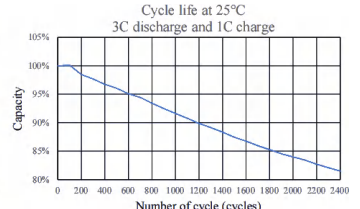
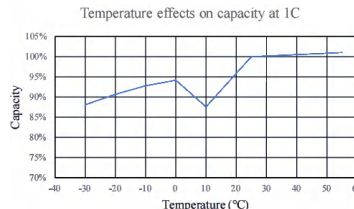
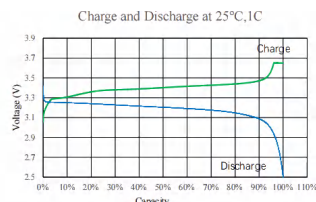
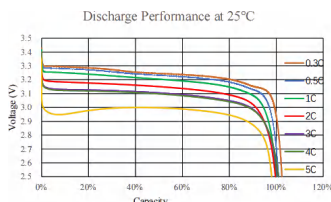
300mA high current passive and active equalization to maintain the consistency of battery cells

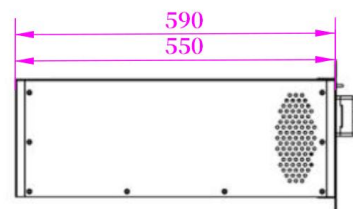
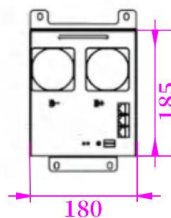


Modular design to support the series under multi-level voltages, more convenient

Battery Performance Data (25.6V100Ah)

Time	15min	30min	45min	60min
Constant power(W)	9300	4920	3280	2510
Constant current(A)	400	212	141	108





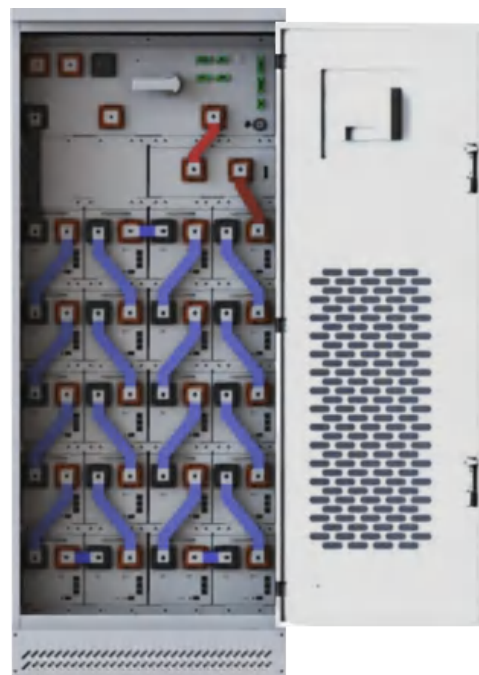
Model	MP-160S100-600M 5C500A	
Item	Parameter	Remarks
Rated voltage	512V	358V/384V/460V/614V as request
Voltage range	430V-576V	Depending on the number of modules "n", the voltage range is 21.54-3.6V*n
Floating charge voltage	550V	
Battery cell	3.2V100Ah	
Series&Parallels	160S1P	Single Battery 8S1P
Battery quantity	20 pcs	YNJA8S100CB-M (14-24 pcs in series as request)
Rated capacity	100Ah	
Energy	51.2KWh	
Maximum continuous discharge current	500A	
Peak discharge current	600A/10S	
Maximum charge current	100A	Suggest charge current<50A
Maximum discharge power	215KW	
Output mode	P+/P-	P+/N/P-(as request)
Output dry contact	Charge/Discharge	
Display screen	7 inch	
Parallel	Support	
Communication	CAN/RS485	
Short circuit current	5000A	
Cycle life (@25°C,1C/1C,DOD100%)	>3000	
Operating ambient temperature	0°C-35°C	
Operating ambient humidity	65±25%R.H.	
Operating Temperature	Charge:0°C~55°C	
	Discharge:-20°C~65°C	
Dimension	800mm*700mm*1950mm	
Weight	630KG	

Uninterruptible Power Supply(UPS)

LP-160S100-200L 1C100A

51.2kWh Energy Storage

Support 1C 100A Discharge



Battery Module	AM265100L
Rated voltage	25.6V
Voltage range	21.5V-28.8V
Battery cell	3.2V/100Ah
Series & Parallels	8S1P
Rated capacity	100Ah
Energy	2.56KWh
Maximum continuous discharge current	100A
Peak discharge current	150A/10S
Maximum charge Current	50A
Maximum discharge power	2560w
Dimension	180mm*550mm*240mm
Weight	25KG
Passive equalization	≤300mA
Thermal management	Natural cooling/air cooling



Lithium iron phosphate battery cell, long cycle life, safer



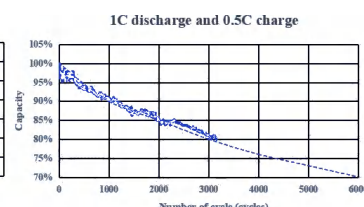
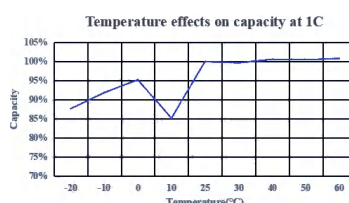
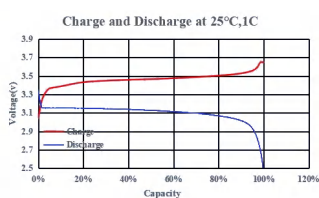
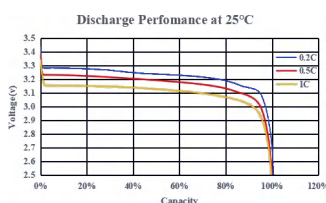
300mA high current passive and active equalization to maintain the consistency of battery cells

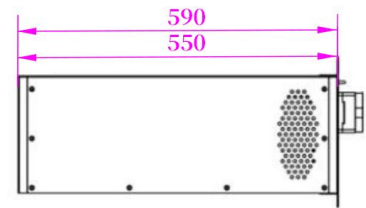
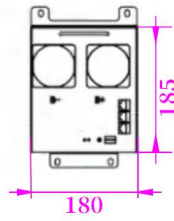


Modular design to support the series under multi-level voltages, more convenient

Battery Performance Data (25.6V50Ah)

Time	5min	10min	15min
Constant power(W)	2320	1536	1160
Constant current(A)	100	66	50





Model	LP-160S100-200L 1C100A	
Item	Parameter	Remarks
Rated voltage	512V	358V/384V/460V/614V as request
Voltage range	430V-576V	Depending on the number of modules "n", the voltage range is 21.54-3.6V*n
Floating charge voltage	550V	
Battery cell	3.2V100Ah	
Series&Parallels	160S1P	Single Battery 8S1P
Battery quantity	20 pcs	YNJA8S100YW-L (14-24 pcs in series as request)
Rated capacity	100Ah	
Energy	51.2KWh	
Maximum continuous discharge current	100A	
Peak discharge current	150A/10S	
Maximum charge current	100A	Suggest charge currents<50A
Maximum discharge power	51.2KW	
Output mode	P+/P-	P+/N/P-(as request)
Output dry contact	Charge/Discharge	
Display screen	7 inch	
Parallel	Support	
Communication	CAN/RS485	
Short circuit current	5000A	
Cycle life(@25°C,1C/1C,DOD100%)	>3000	
Operating ambient temperature	0°C-35°C	
Operating ambient humidity	65±25%R.H.	
Operating Temperature	Charge:0°C~55°C	
	Discharge:-20°C~65°C	
Dimension	800mm*700mm*1950mm	
Weight	630KG	

Industrial & Commercial Energy Storage System

The system is designed for industrial and commercial energy storage projects. The scheme is integrated by modular combination mode, which can be matched according to different application scenarios.



Cabinet A/C



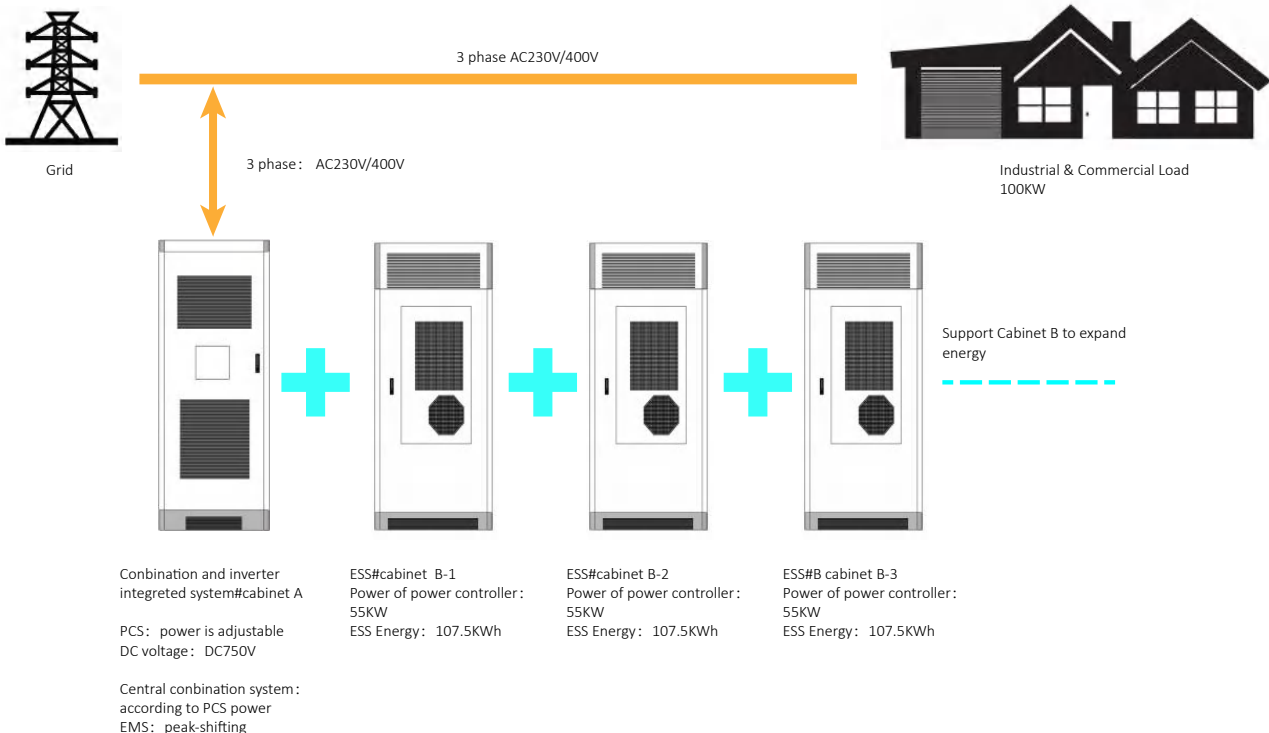
Cabinet D



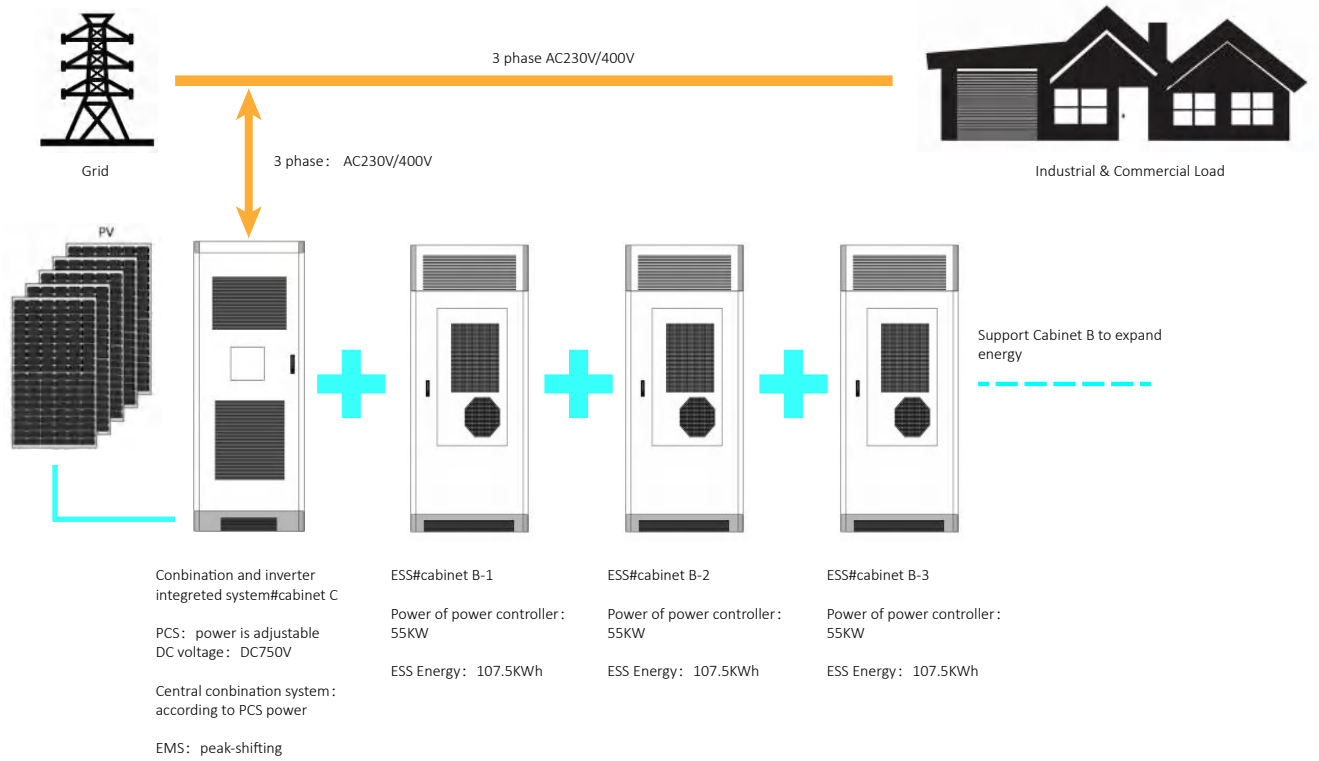
Cabinet B

- ▶ Cabinet A is integrated cabinet of combination and inverter;
- ▶ Cabinet B is energy storage system cabinet;
- ▶ Cabinet C is PV, ESS, and inverter cabinet;
- ▶ Cabinet D is on/off-grid inverter cabinet.
- ▶ Energy storage on-grid mode: A+B+B+B combination mode, which can realize the function of peak-shifting and on-grid.
- ▶ PV energy storage on-grid mode: C+B+B+B combination mode, which can realize the function of self-use and on-grid.
- ▶ PV energy storage off-grid mode: D+B+B+B combination mode, can realize the function of the switching of PV, energy storage and on/off-grid.
- ▶ Cabinet B: Total energy 107.5KWh , 7 pcs 51.2V300Ah battery modules, 7pcs 10kw power controller; Other cables and accessories required for complete functions ;
- ▶ Cabinet D: 1pcs 100KW on/off hybrid inverter (Power optional) ; 1pcs central combination system; 1pcs; 1 pcs environmental detecting system * 1pcs; and accessories required for complete functions ;

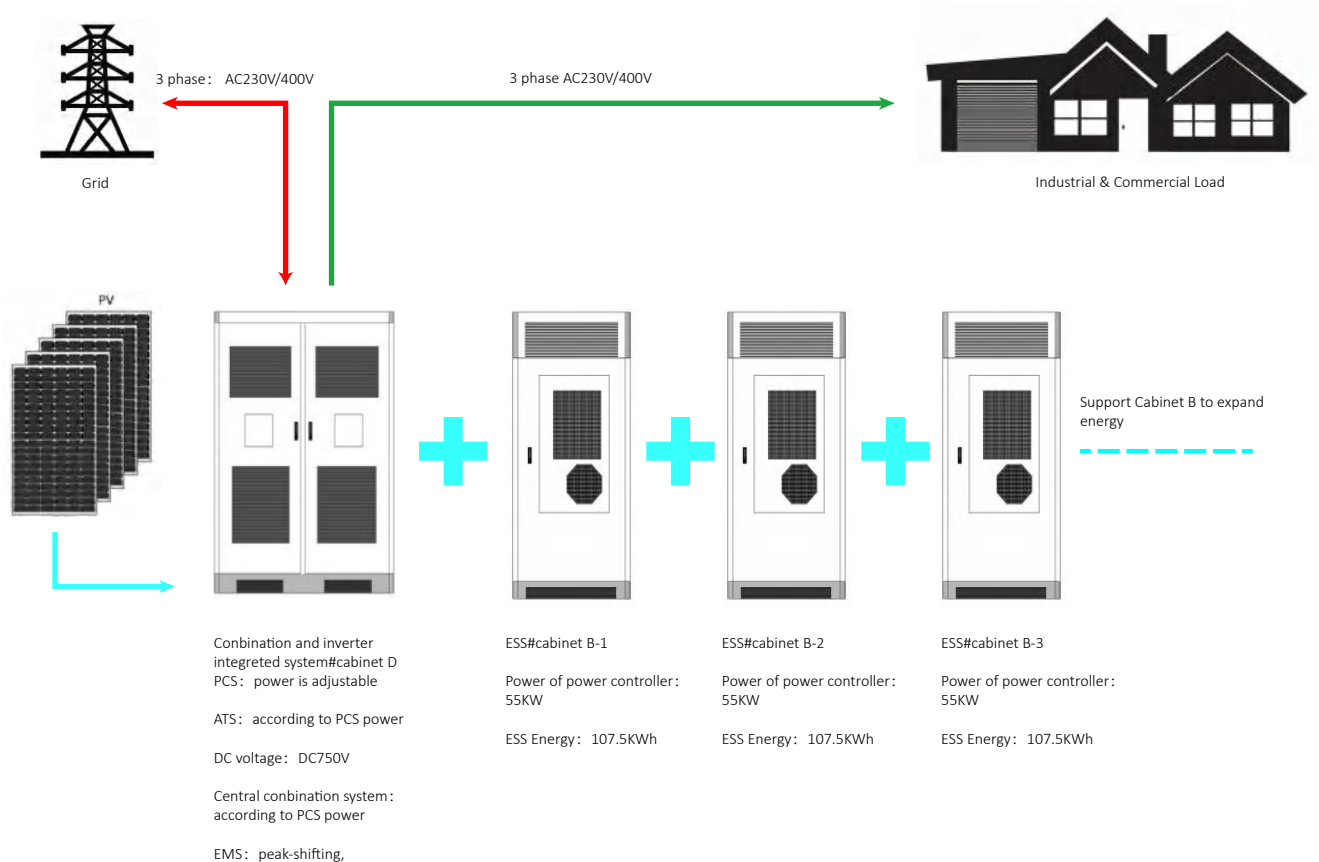
Topology of energy storage on-grid system



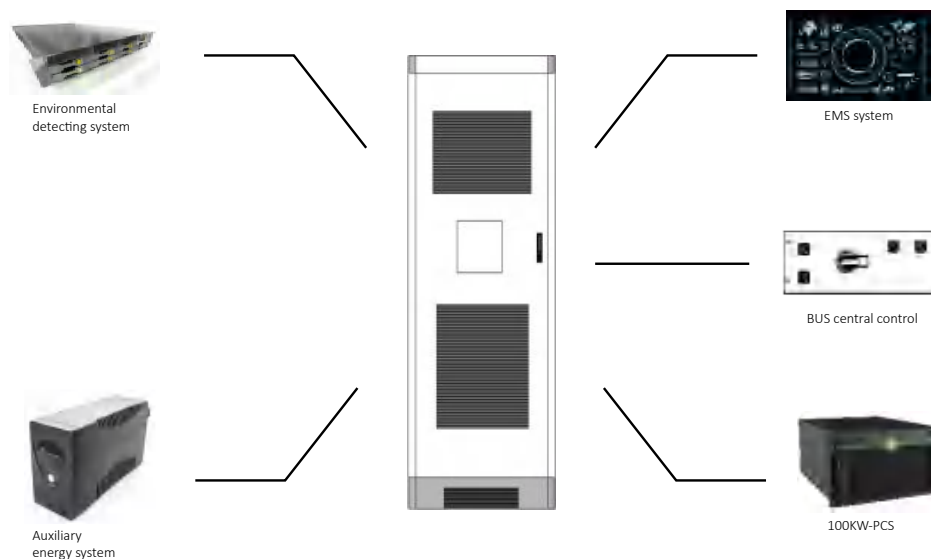
Topology of PV energy storage on-grid system



Topology of PV energy storage on/off-grid system



Industrial & Commercial Energy Storage System -Split energy storage PCS parameter



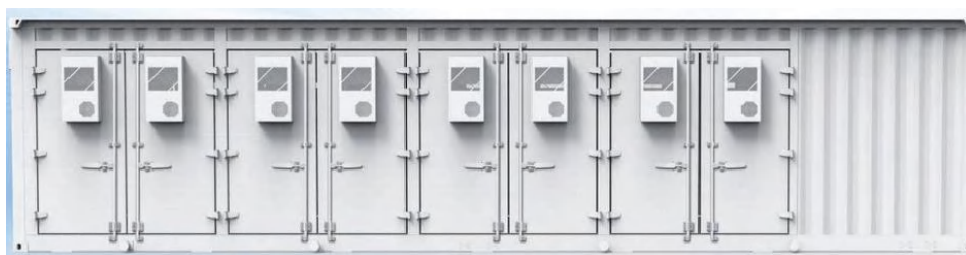
ITEM	PARAMETER
Battery voltage range	420 ~ 850Vdc
Maximum charge power	120KW
Rated output power	100KW
Maximum output power	110KVA
Voltage-type	Three-phase and five-wire lines (3W+N+PE)
On-grid AC rated voltage	400Vac
Rated output current	144A
On-grid voltage range	320 ~460Vac
Grid frequency range	45 ~ 55Hz/ 55 ~ 65Hz
THDi	< 3%
Power factor	1ahead ~ 1 behind
Off-grid AC rated voltage	400Vac
Mmaximum off-grid output power	100KW
Overload capacity	110% ~ Normal operation,, 120% ~ 1min
Peak efficiency	>98 . 5%
THDu	1% linear; 5% nonlinear
Maximum PV input voltage	DC1000V
Maximum PV power	120KW
MPPT full-load voltage range	450V ~ 850V
Protection	IP65
Relative humidity	< 95% (no condensation)
Operation temperature	- 30°C ~ +55°C
Communication	RS485 / CAN 2.0 / Ethernet
Weight	1500kg
Dimension (W * D* Hmm)	1400* 1200* 2250

Industrial Energy Storage System-single battery cabinet parameter of split energy storage system



ITEM	PARAMETER	REMARK
Voltage output range	DC500 - 850V	Adjustable
Maximum discharge power	55KW	
Maximum output current	110A	
Maximum charge power	55KW	
Total energy	107 . 5KWh	
Power control type	10KW	
Power controller quantity	7	
Battery module specification	51 . 2V300Ah	
battery module quantity	16	
BCU control system	3P7 - 7P10	
Operation temperature	charge 0℃ ~ +56℃ discharge 20℃ ~ +56℃	
Cycle life	≥6000	
Protection	IP65	
Communication	CAN/ RS485	
Cooling method	Fan	
Dimension	1000 * 1000 * 2150mm	
Weight	about 1200KG	

Container Energy Storage System



20FT Container Energy Storage System-1.38MWh

ITEM	PARAMETER
Voltage output range	DC500-850V
Maximum discharge power	70KW
Maximum output current	140A
Maximum efficiency	92%
Maximum charge power	70KW
Total energy	138.24KWh
Power control type	10KW
DC controller quantity	9pcs
Battery module specification	51.2V300Ah
Active equalization	3A
Battery module quantity	9pcs
BCU control system	1P9-9P10
Operation temperature	charge 0°C ~ +45°C
	discharge -20°C ~ +55°C
Cycle life	≥6000
Protection	RS485/CAN/TCP
Communication	natural cooling
Cooling method	IP20
Dimension	950*800*2350mm
Weight	1500KG

ITEM	PARAMETER
Voltage output range	DC500-850V (Constant voltage adjustable)
DC side maximum discharge power	700KW
DC side maximum output current	1400A
DCside maximum charge power	700KW
Total Energy	1.38MWh
DC controller power	10KW
DC controller quantity	90pcs
Battery module specification	51.2V300Ah
Battery module quantity	90pcs
Cycle life	≥6000
Communication	CAN/RS485/TCP
Dimension	6350*2350*2860mm
Weight	about 30000KG
Cooling method	fan

40HQ Container Energy Storage System-2MWh

ITEM	PARAMETER
Voltage output range	DC500-850V
Maximum discharge power	70KW
Maximum output current	140A
Maximum efficiency	92%
Maximum charge power	70KW
Total energy	92.16KWh
Power control type	10KW
DC controller quantity	9pcs
Battery module specification	51.2V/100Ah
Active equalization	3A
battery module quantity	18pcs
BCU control system	2P18-9P10
Operation temperature	charge 0°C ~ +45°C
	discharge -20°C ~ +55°C
Cycle life	≥6000
Protection	RS485/CAN/TCP
Communication	natural cooling
Cooling method	IP20
Dimension	950*800*2350mm
Weight	1100KG

ITEM	PARAMETER
Voltage output range	DC500-850V (Constant voltage adjustable)
DC side maximum discharge power	1.5MW
DC side maximum output current	3000A
DC side maximum charge power	1.5MW
Total energy	2027KWh
DC controller power	10KW
DC controller quantity	198pcs
Battery module specification	51.2V/100Ah
Battery module quantity	396pcs
Cycle life	≥6000
Communication	CAN/RS485/TCP
Dimension	12950*2350*2860mm
Weight	about 48000KG
Cooling method	fan

40HQ Container Energy Storage System-3MWh

ITEM	PARAMETER
Voltage output range	DC500-850V
Maximum discharge power	70KW
Maximum output current	140A
Maximum efficiency	92%
Maximum charge power	70KW
Total energy	138.24KWh
Power control type	10KW
DC controller quantity	9pcs
Battery module specification	51.2V/300Ah
Active equalization	3A
Battery module quantity	9pcs
BCU Control system	1P9-9P10
Operation temperature	charge 0°C ~ +45°C
	discharge -20°C ~ +55°C
Cycle life	≥6000
Protection	RS485/CAN/TCP
Communication	natural cooling
Cooling method	IP20
Dimension	950*800*2350mm
Weight	1500KG

ITEM	PARAMETER
Voltage output range	DC500-850V (Constant voltage adjustable)
DC side maximum discharge power	1.5MW
DC side maximum output current	3000A
DCside maximum charge power	1.5MW
Total energy	3041KWh
DC controller power	10KW
DC controller quantity	198pcs
Battery module specification	51.2V/300Ah
Battery module quantity	198pcs
Cycle life	≥6000
Communication	CAN/RS485/TCP
Dimension	12950*2350*2860mm
Weight	about 55000KG
Cooling method	fan