

Customer-centric, service-oriented
Building safe, intelligent, and clean energy

RH-solar Energy technology Co., Ltd. is an enterprise integrating R&D, production and sales of solar energy storage lithium battery systems.

RH-solar

ENERGY STORAGE SYSTEM MANUFACTURERS

Factory Address :

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Mail:

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About Us

US

RH-solar Energy Co., Ltd. Shengtian New Energy Co., Ltd. is an enterprise integrating the research and development, production, sales and service of solar energy storage systems. With many years of industry experience and a professional technical team, the company's products have a complete manufacturing system and supply chain system.

The main products are: home storage batteries, RV batteries, commercial energy storage systems, etc. and BMS products.

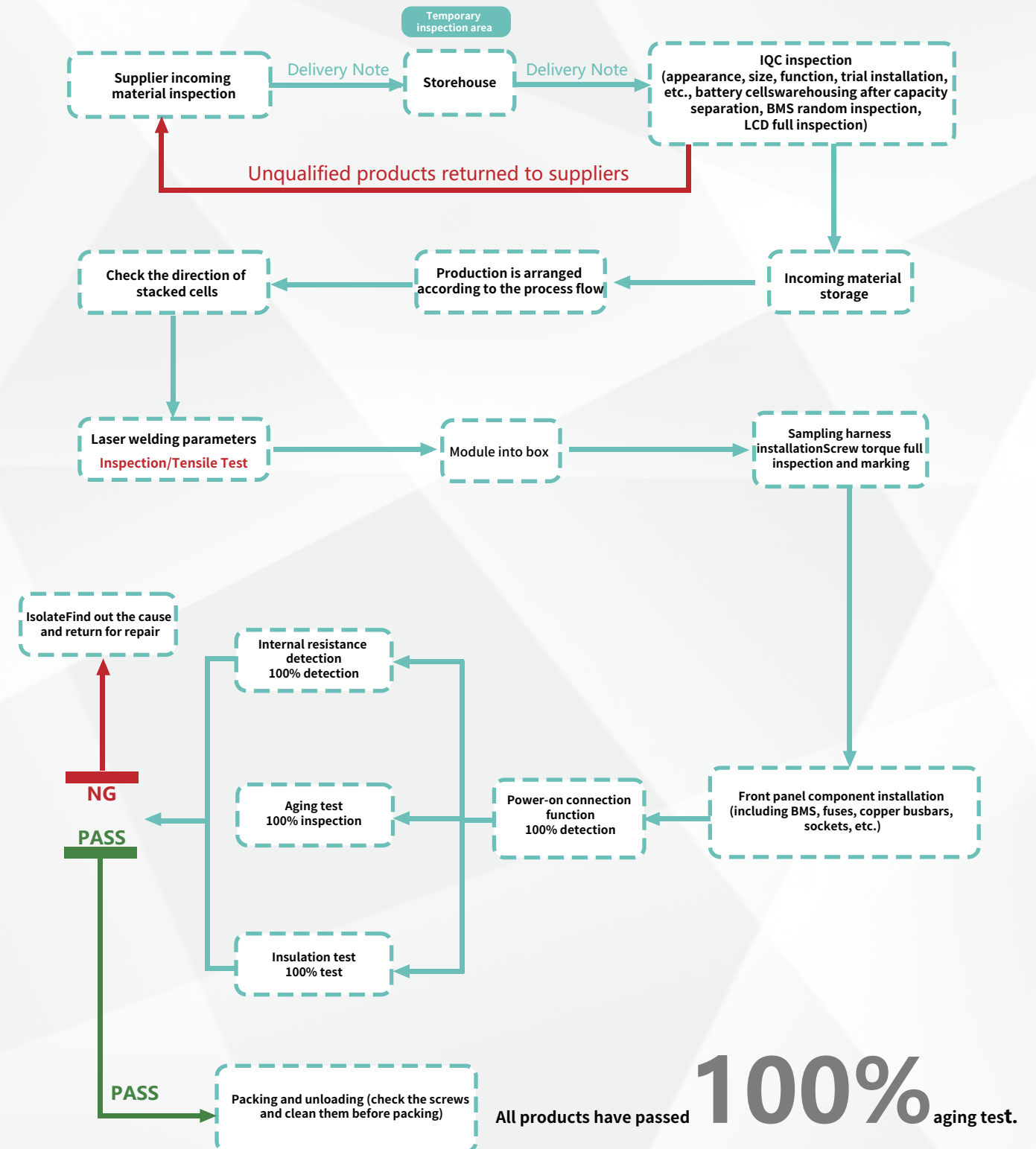
It has a variety of appearance and BMS research and development design patents, and its products have passed CE, UN38.3, MSDS, TUV, and other certifications.

The R&D team brings together a group of professional technicians with many years of experience, has a complete production and quality management process, provides partners with high-quality products, and wholeheartedly provides you with real-time pre-sales and after-sales services..

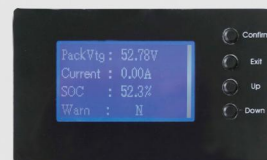
Corporate vision: To provide safe, reliable and clean energy.



QC Inspection Process



NILE-100



NILE-200



NILE
SERIES

PUSUNG
SERIES

DIY KIT
SERIES

POLO
SERIES

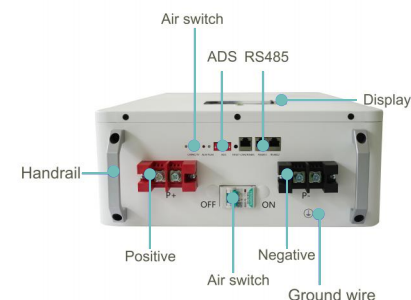
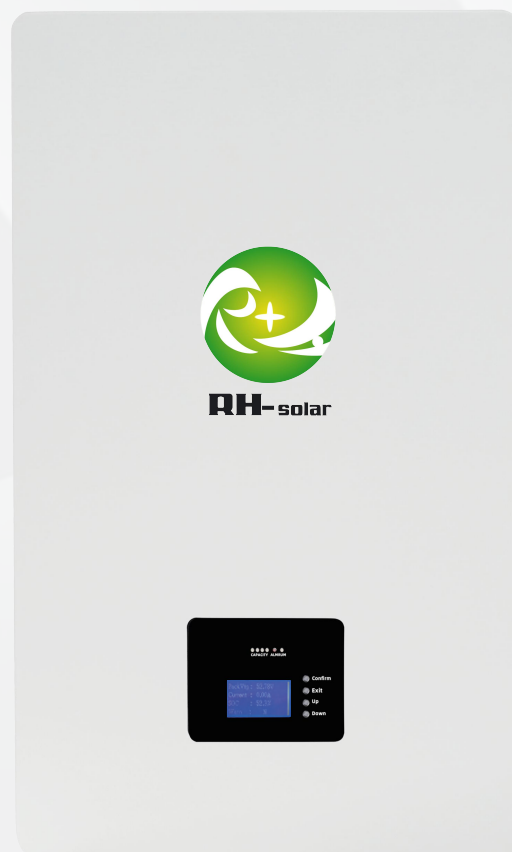
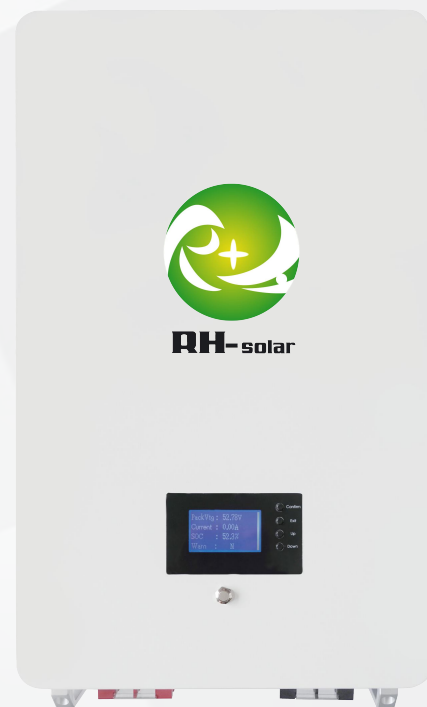
RV POWER
SUPPLY
SERIES

SMALL HIGH
VOLTAGEHOME
SERIES

INDUSTRIAL AND
COMMERCIAL
SERIES

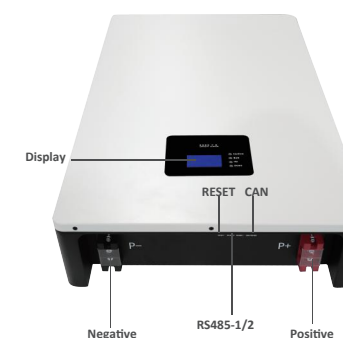
NILE SERIES

NILE-100/NILE-200



- High quality lithium iron phosphate
- Built-in BMS intelligent protection
- Display screen switching inverter protocol
- MSDS, CE, IEC, UN38.3 certification

- Applicable to on-grid and off-grid
- Wall mounted to save space
- 5KWH/10KWH....Multiple options



Technical Parameters

PRODUCT PERFORMANCE	NILE-100	NILE-200
STANDARD VOLTAGE	51.2V	51.2V
RATED CAPACITY	100AH	200AH
OPERATING VOLTAGE	42V-58.4V	42V-58.4V
STANDARD CHARGING CURRENT	50A	100A
MAXIMUM CHARGE/DISCHARGE CURRENT	100A	100A
OPERATING TEMPERATURE RANGE	0-40°C (CHARGE) -20-40°C (DISCHARGE)	
STORAGE TEMPERATURE	-10°C~35°C (1MONTH) 25±2°C (3MONTH) 65%±20%RH	
CYCLE LIFE	6000 CYCLES @25°C 50A CHARGE AND DISCHARGE CURRENT 70% STANDARD CAPACITY 80% DOD	
COMMUNICATION	CAN&RS485	
WATERPROOF GRADE	IP20	IP20
HUMIDITY RANGE	5~80%	5~80%
NET SIZE	368*600*150MM	520*830*159MM
CARTON PACKAGING	435*695*250MM	590*900*260MM
PALLET	1*1.2*1.5M	1*1.2M
PER CARD BOARD	28BOX	14BOX
20-FOOT CONTAINER	280BOX	144BOX
40-FOOT CONTAINER	560BOX	288BOX
NET WEIGHT	46±3KG	98±3KG
PACKING WEIGHT	51KG	101KG



NILE
SERIES

PUSUNG
SERIES

DIY KIT
SERIES

POLO
SERIES

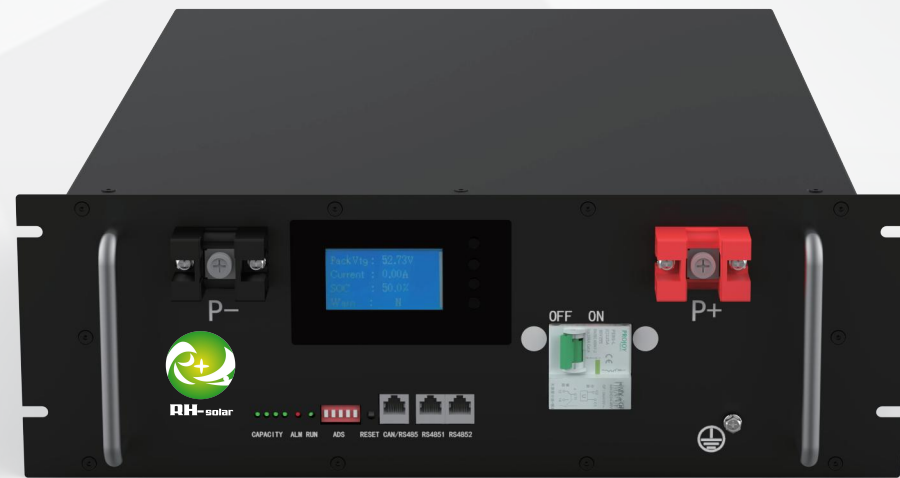
RV POWER
SUPPLY
SERIES

SMALL HIGH
VOLTAGEHOME
SERIES

INDUSTRUAL AND
COMMERCIAL
SERIES

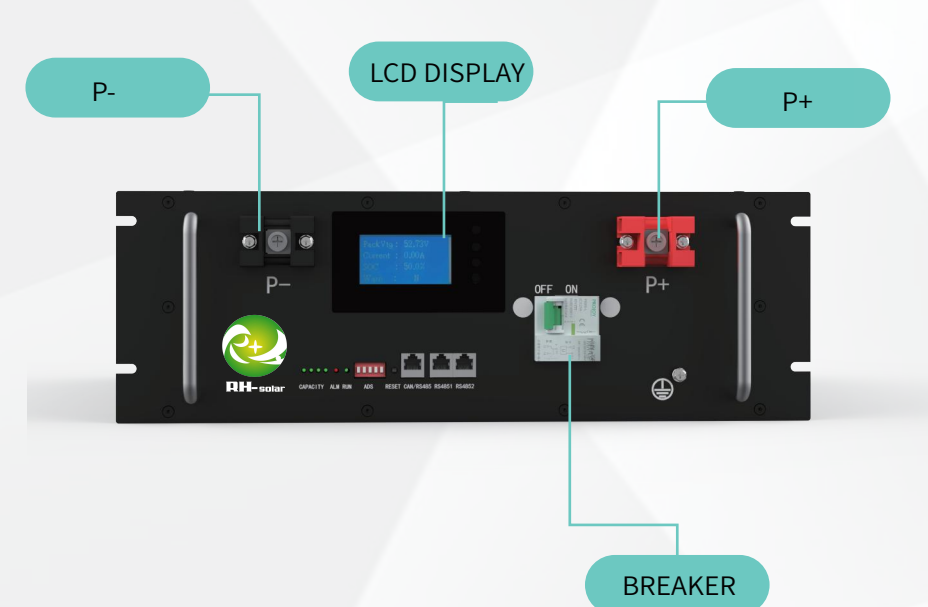
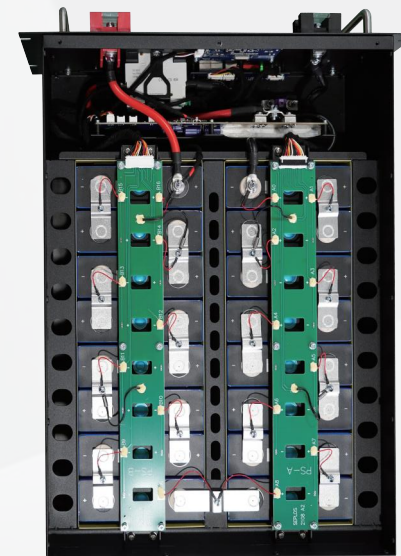
NILE SERIES

5.12KWH



Technical Parameters

PRODUCT PERFORMANCE	NILE-R-100
NOMINAL VOLTAGE	51.2V
RATED CAPACITY	100AH
RATED POWER	5.12KWH
OPERATING VOLTAGE	42V-58.4V
STANDARD CHARGING CURRENT	50A
MAXIMUM CHARGING CURRENT	100A
MAXIMUM DISCHARGE CURRENT	100A
OPERATING TEMPERATURE RANGE	0~40°C (CHARGE) -20~40°C (DISCHARGE)
STORAGE TEMPERATURE	-10°C~35°C (1MONTH) 25±2°C (3MONTH) 65%±20%RH
COMMUNICATION	CAN/RS485
CYCLE LIFE	6000
SIZE(L*W*H)	600*430*160mm
WEIGHT	50KG
HIGH	0-3000
IP RATING	IP20
HUMIDITY RANGE	5-80%





NILE
SERIES

PUSUNG
SERIES

DIY KIT
SERIES

POLO
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RV POWER
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SMALL HIGH
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SERIES

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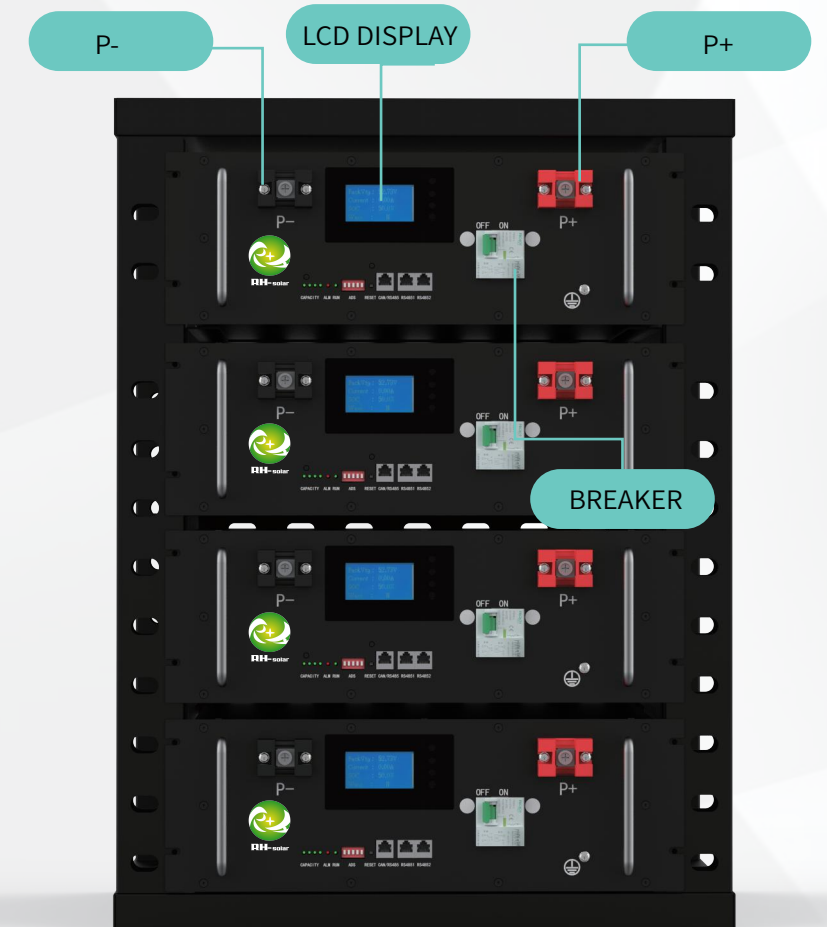
NILE SERIES

10.24KWH



Technical Parameters

PRODUCT PERFORMANCE	NILE-R-200
NOMINAL VOLTAGE	51.2V
RATED CAPACITY	200AH
RATED POWER	10.24KWH
OPERATING VOLTAGE	42V-58.4V
STANDARD CHARGING CURRENT	100A
MAXIMUM CHARGING CURRENT	100A
MAXIMUM DISCHARGE CURRENT	100A
OPERATING TEMPERATURE RANGE	0~40°C (CHARGE) -20~40°C (DISCHARGE)
STORAGE TEMPERATURE	-10°C~35°C (1MONTH) 25±2°C (3MONTH) 65%±20%RH
COMMUNICATION	CAN/RS485
CYCLE LIFE	6000
SIZE(L*W*H)	1044*430*160mm
WEIGHT	100KG
HIGH	0-3000
IP RATING	IP20
HUMIDITY RANGE	5-80%



PUSUNG-W



PUSUNG-S



PUSUNG-R





NILE
SERIES

PUSUNG
SERIES

DIY KIT
SERIES

POLO
SERIES

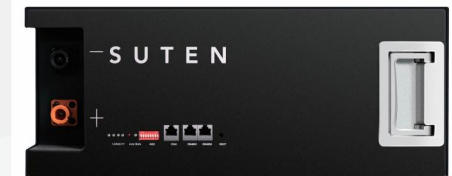
RV POWER
SUPPLY
SERIES

SMALL HIGH
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SERIES

INDUSTRIAL AND
COMMERCIAL
SERIES

PUSUNG SERIES

PUSUNG-S/R/W



- High quality lithium iron phosphate
- High efficiency and convenience High energy density
- High stability
- Supports up to 16 batteries in parallel
- Safe, stable and excellent performance
- Switch inverter protocols arbitrarily on the display

Technical Parameters

PRODUCT PERFORMANCE	PUSUNG-S	PUSUNG-R	PUSUNG-W
STANDARD VOLTAGE	51.2V		
RATED CAPACITY	100AH		
OPERATING VOLTAGE	42V-58.4V		
STANDARD CHARGING CURRENT	100A		
MAXIMUM CHARGE/DISCHARGE CURRENT	50A		
OPERATING TEMPERATURE RANGE	0-40°C (CHARGE) -20-40°C (DISCHARGE)		
STORAGE TEMPERATURE	-10°C~35°C (1MONTH) 25±2°C (3MONTH) 65%±20%RH		
CYCLE LIFE	≥80% CAPACITY AFTER 6000 CYCLES AT 0.5C/25°C, 100% DOD		
COMMUNICATION	CAN&RS485		
WATERPROOF GRADE	IP20		
HUMIDITY RANGE	5~80%		
NET SIZE	565*440*170MM		
CARTON PACKAGING	650*490*235MM		
PALLET	1*1.2*1.5M		
PER CARD BOARD	24BOX		
20-FOOT CONTAINER	240BOX		
40-FOOT CONTAINER	480BOX		
NET WEIGHT	56.2±3KG		
PACKING WEIGHT	59KG		

MASON-280L



MASON-280





- NILE
SERIES
- PUSUNG
SERIES
- DIY KIT
SERIES
- POLO
SERIES
- RV POWER
SUPPLY
SERIES
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VOLTAGEHOME
SERIES
- INDUSTRIAL AND
COMMERCIAL
SERIES

DIY KIT SERIES

MASON-280



206/230 Battery Kit Solution

- 230A plan

53.7*173.6*200mm

Distance between terminals:123mm
- 230B plan

CALB 230AH
EVE 230AH
CATL 230AH

53.7*173.6*200mm

Distance between terminals:123mm
- 230C plan

GF 206AH
LISHEN 202AH

53.7*173.6*200mm

Distance between terminals:89mm

280 Battery Kit Solution

- 280A plan

GF 206AH
LISHEN 202AH
EVE 280AH

72*174*204mm

Distance between terminals:123mm
- 280B plan

EVE 304AH

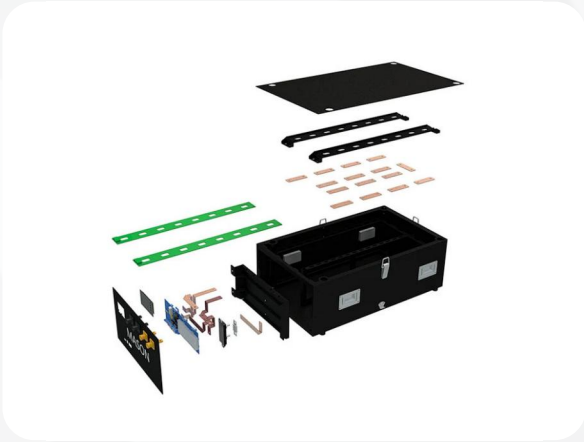
72*174*204mm

Distance between terminals:89mm
- 280C plan

EVE 280AH

72*173.6*200mm

Distance between terminals:129mm



- Long cycle life, safe and stable
- Easy to install and use
- MSDS, CE, ICE, UN38.3 certification



Technical Parameters

PRODUCT PERFORMANCE	MASON-280
STANDARD VOLTAGE	51.2V
RATED CAPACITY	280AH
OPERATING VOLTAGE	42V-58.4V
STANDARD CHARGING CURRENT	100A/200A
MAXIMUM CHARGE/DISCHARGE CURRENT	200A
OPERATING TEMPERATURE RANGE	0-40°C(CHARGE)-20-40°C(DISCHARGE)
STORAGE TEMPERATURE	-10°C~35°C (1MONTH) 25±2°C (3MONTH) 65%±20%RH
CYCLE LIFE	6000 CYCLES @25°C 50A CHARGE AND DISCHARGE CURRENT 70% STANDARD CAPACITY 80% DOD
COMMUNICATION	CAN&RS485
WATERPROOF GRADE	IP20
HUMIDITY RANGE	5~95%
NET SIZE	750*440*255MM
NET WEIGHT	113±3KG



NILE
SERIES

PUSUNG
SERIES

DIY KIT
SERIES

POLO
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RV POWER
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SERIES

INDUSTRIAL AND
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DIY KIT SERIES MASON-280L



206/230 Battery Kit Solution

230A plan

53.7*173.6*200mm
Distance between terminals:123mm

230B plan
CALB 230AH
EVE 230AH
CATL 230AH

53.7*173.6*200mm
Distance between terminals:123mm

230C plan
GF 206AH
LISHEN 202AH

53.7*173.6*200mm
Distance between terminals:89mm

280 Battery Kit Solution

280A plan
GF 206AH
LISHEN 202AH
EVE 280AH
72*174*204mm
Distance between terminals:123mm

280B plan
EVE 304AH

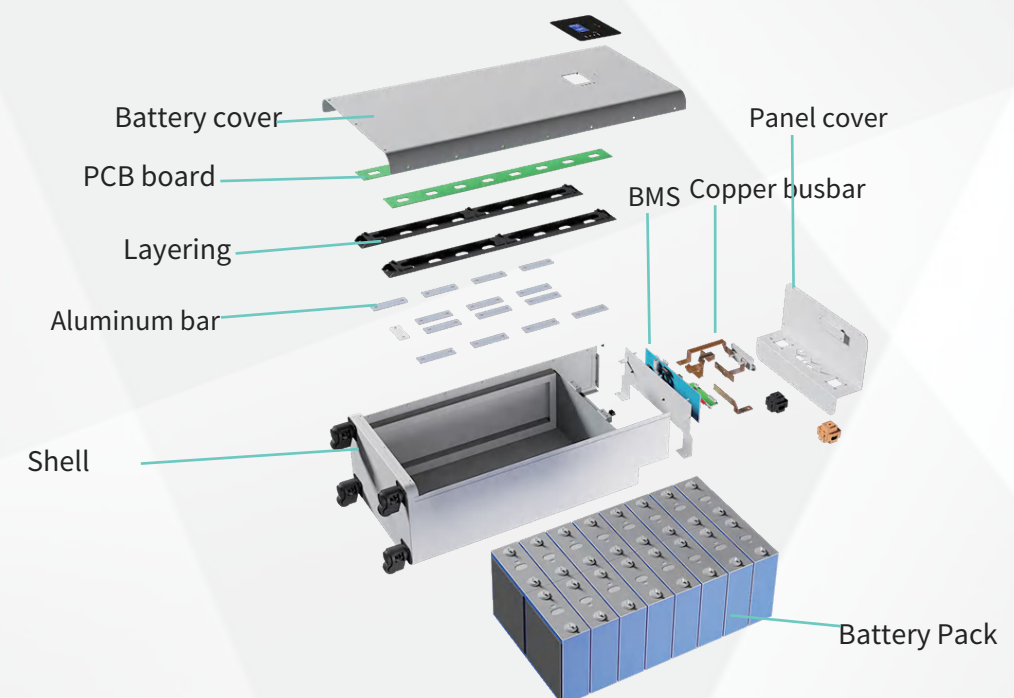
72*174*204mm
Distance between terminals:89mm

280C plan
EVE 280AH

72*173.6*200mm
Distance between terminals:129mm

Technical Parameters

PRODUCT PERFORMANCE	MASON-280L
STANDARD VOLTAGE	51.2V
RATED CAPACITY	280AH
OPERATING VOLTAGE	42V-58.4V
STANDARD CHARGING CURRENT	100A/200A
MAXIMUM CHARGE/DISCHARGE CURRENT	200A
OPERATING TEMPERATURE RANGE	0-40°C(CHARGE)-20-40°C(DISCHARGE)
STORAGE TEMPERATURE	-10°C~35°C (1MONTH) 25±2°C (3MONTH) 65%±20%RH
CYCLE LIFE	8000 CYCLES @25°C 50A CHARGE AND DISCHARGE CURRENT 70% STANDARD CAPACITY 80% DOD
COMMUNICATION	CAN&RS485
WATERPROOF GRADE	IP20
HUMIDITY RANGE	5~95%
NET SIZE	828*415*267MM
NET WEIGHT	113±3KG

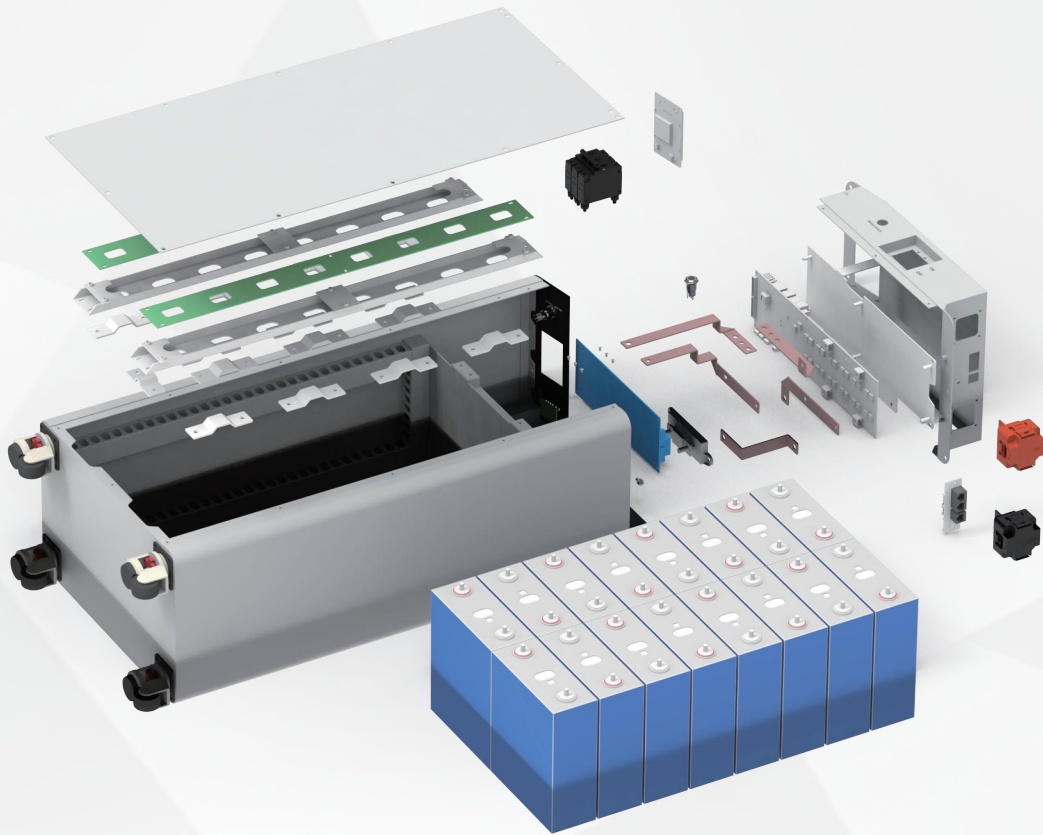




- NILE
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VOLTAGEHOME
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DIY KIT SERIES

Rimdin-280



Technical Parameters

PRODUCT PERFORMANCE	RIMDIN-280
STANDARD VOLTAGE	51.2V
RATED CAPACITY	280AH
OPERATING VOLTAGE	42V-58.4V
STANDARD CHARGING CURRENT	100A/200A
MAXIMUM CHARGE/DISCHARGE CURRENT	200A
OPERATING TEMPERATURE RANGE	0-40°C(CHARGE)-20-40°C(DISCHARGE)
STORAGE TEMPERATURE	-10°C~35°C (1MONTH) 25±2°C (3MONTH) 65%±20%RH
CYCLE LIFE	8000 CYCLES @25°C 50A CHARGE AND DISCHARGE CURRENT 70% STANDARD CAPACITY 80% DOD
COMMUNICATION	CAN&RS485
WATERPROOF GRADE	IP20
HUMIDITY RANGE	5~95%
NET SIZE	898.5*415*260MM
NET WEIGHT	120±3KG



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SERIES
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SERIES
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- INDUSTRUAL AND
COMMERCIAL
SERIES

POLO SERIES
POLO-S



- Applicable to on-grid and off-grid
- Compatible with many mainstream inverters
- One-button parallel switch
- Secondary release design protection

Technical Parameters

PRODUCT PERFORMANCE	100-S
STANDARD VOLTAGE	51.2V
RATED CAPACITY	100AH
OPERATING VOLTAGE	42V-58.4V
STANDARD CHARGING CURRENT	50A/100A
MAXIMUM CHARGE/DISCHARGE CURRENT	100A
OPERATING TEMPERATURE RANGE	0-40°C(CHARGE)-20-40°C(DISCHARGE)
STORAGE TEMPERATURE	-10°C~35°C (1MONTH) 25±2°C (3MONTH) 65%±20%RH
CYCLE LIFE	6000 CYCLES @25°C 50A CHARGE AND DISCHARGE CURRENT 70% STANDARD CAPACITY 80% DOD
COMMUNICATION	CAN&RS485
WATERPROOF GRADE	IP20
HUMIDITY RANGE	5~95%
NET SIZE	618*450*208.5MM
NET WEIGHT	48±3KG



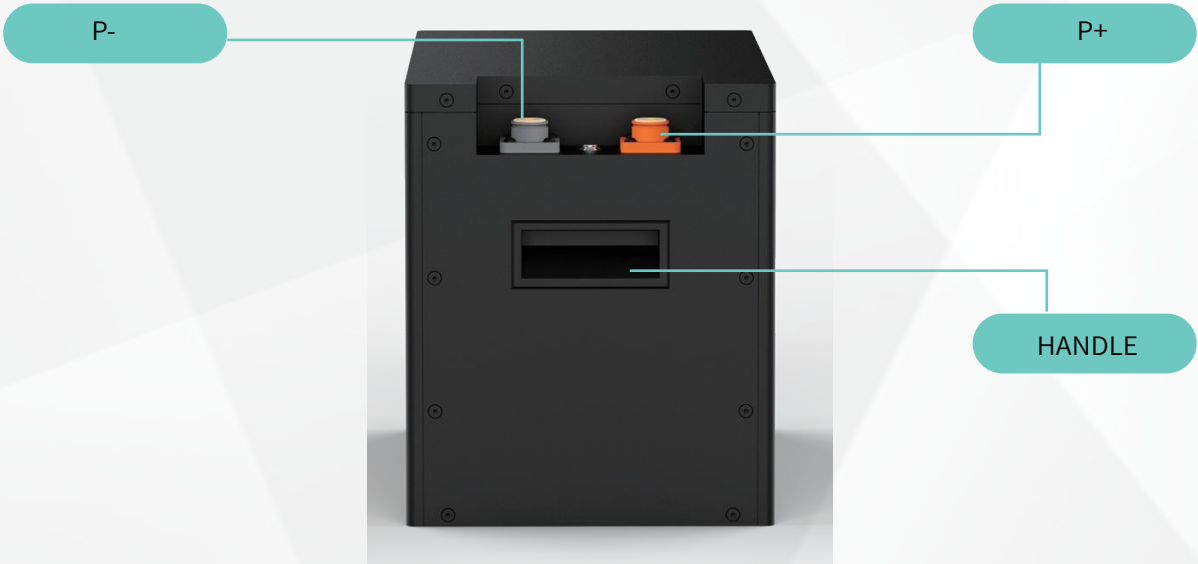
- NILE
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SUPPLY
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- INDUSTRIAL AND
COMMERCIAL
SERIES

RV POWER SUPPLY SERIES
FT12-280



Technical Parameters

PRODUCT PERFORMANCE	FT12-280
STANDARD VOLTAGE	12.8V
RATED CAPACITY	280AH
OPERATING VOLTAGE	10.4V-14.4V
STANDARD CHARGING CURRENT	100A
MAXIMUM CHARGE/DISCHARGE CURRENT	200A
OPERATING TEMPERATURE RANGE	0-40°C(CHARGE)-20-40°C(DISCHARGE)
STORAGE TEMPERATURE	-10°C~35°C (1MONTHS) 25±2°C (3MONTHS) 65%±20%RH
CYCLE LIFE	6000 CYCLES @25°C 50A CHARGE AND DISCHARGE CURRENT 70% STANDARD CAPACITY 80% DOD
COMMUNICATION	CAN&RS485
WATERPROOF GRADE	IP20
HUMIDITY RANGE	5~95%
NET SIZE	400*220*260MM
NET WEIGHT	34.2±3KG



HITEN-HV-AC-S5



HITEN-HV-AC-S4



HITEN-HV-AC-S3



HITEN-HV-AC-S2





NILE
SERIES

PUSUNG
SERIES

DIY KIT
SERIES

POLO
SERIES

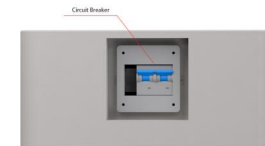
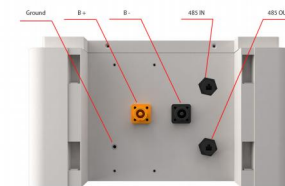
RV POWER
SUPPLY
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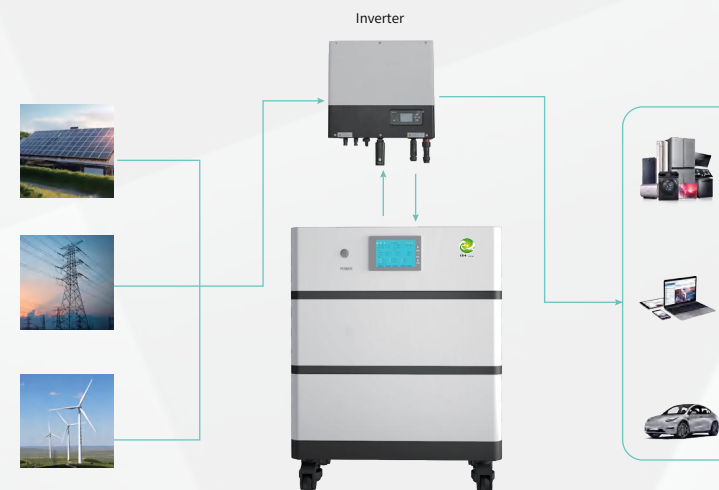
SMALL HIGH VOLTAGEHOME SERIES

HITEN-50



Technical Parameters

PRODUCT PERFORMANCE	HV-AC-S2	HV-AC-S3	HV-AC-S4	HV-AC-S5
RATED CAPACITY	10.24 KWH	15.3KWH	20.4 KWH	25.6KWH
CELL TYPE	LITHIUM IRON PHOSPHATE	LITHIUM IRON PHOSPHATE	LITHIUM IRON PHOSPHATE	LITHIUM IRON PHOSPHATE
CELL CONFIGURATION	2*32S1P	3*32S1P	4*32S1P	5*32S1P
RATED VOLTAGE	204.8V	307.2V	409.6V	512V
RATED CAPACITY	50AH	50AH	50AH	50AH
OPERATING VOLTAGE RANGE	172.8V-233.6V	259.2-350.4V	345.6-467.2V	432-584V
RATED CHARGE AND DISCHARGE CURRENT	50A	50A	50A	50A
RATED CHARGE AND DISCHARGE POWER	10.24 KW	15.36 KW	20.48 KW	25.6 KW
COMMUNICATION	CAN/RS485			
CYCLE LIFE	6000			
OPERATING TEMPERATURE RANGE	-15-45°C			
RELATIVE HUMIDITY	5%-65%			
WEIGHT	121±4KG	169±6KG	217±8KG	265±10KG
SIZE (L*W*H)	630*380*720MM	630*380*920MM	630*380*1120MM	630*380*1320MM
BATTERY BOX PACKAGING WEIGHT	64KG			
MAIN CONTROL BOX PACKAGING WEIGHT	24.3KG			







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INDUSTRUAL AND COMMERCIALSERIES

1.1MWH



Sinexcel 500KW



Hiten-R-280-20S



Technical Parameters

PRODUCT PERFORMANCE	1.1MWH
OPERATING VOLTAGE	594V-792V
OUTPUT VOLTAGE	390V@AC
SYSTEM CONFIGURATION	1P220S
RATED POWER	500KW
MATCHING PCS	500KW
RATED CAPACITY	1.1MWH
BATTERY UPLOAD REQUEST VALUE	5%-95%
BATTERY PROTECTION VALUE	2.7V-3.6V
DISCHARGEABLE ENERGY	≥990Kwh
BATTERY CYCLE EFFICIENCY	≥90%@AC
SIZE	2991*2438*2896MM
WEIGHT	15T
IP RATING	IP54
OPERATING TEMPERATURE RANGE	-20-50°C
OPERATING HUMIDITY RANGE	≤95% (NO CONDENSATION)
BATTERY TEMPERATURE CONTROL METHOD	AIR COOLING
FIRE PROTECTION SYSTEM	AEROSOL

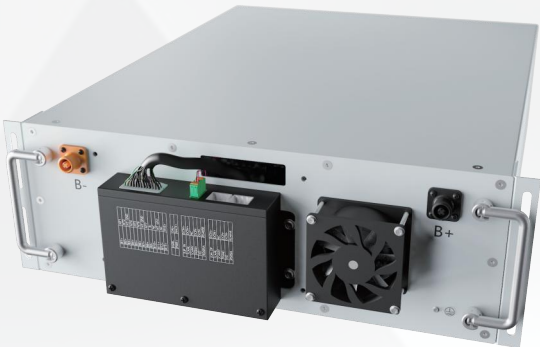


- NILE
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INDUSTRUAL AND
COMMERCIALSERIES
HITEN-104



- Rapid maintenance
- Aerosol firefighting
- Forced air cooling



Technical Parameters

PRODUCT PERFORMANCE	HV25-HITEN-104	HV50HITEN-104
RATED LOAD	26.64KWH	53.2KWH
CONFIGURATION	5*1P16S	10*16S1P
RATED VOLTAGE	256V	512V
RATED CAPACITY	104AH	104AH
OPERATING VOLTAGE RANGE	216-292V	432-584V
RATED CHARGE AND DISCHARGE CURRENT	100A	100A
RATED CHARGE AND DISCHARGE POWER	26KW	51KW
NET WEIGHT	364KG±3KG	650KG±6KG
SIZE	860*760*1248mm	860*760*2077mm
GROSS WEIGHT	419KG±4KG	723KG±7KG
COMMUNICATION	CAN/RS485	CAN/RS485
STORAGE TEMPERATURE	-10~30°C	-10~30°C
CHARGING TEMPERATURE	0~40°C	0~40°C
DISCHARGE TEMPERATURE	-20~40°C	-20~40°C
WATERPROOF GRADE	IP20	IP20



NILE
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SERIES

DIY KIT
SERIES

POLO
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INDUSTRUAL AND
COMMERCIAL
SERIES

INDUSTRUAL AND COMMERCIALSERIES

106KWH



Technical Parameters

PRODUCT SPECIFICATIONS	VS R106P0050 M
DC SIDE VOLTAGE RANGE	432~584V
OUTPUT VOLTAGE	380V@AC
SYSTEM CONFIGURATION	1P160S
RATED POWER	50KW
MATCHING COMPUTER	50KW
BATTERY SYSTEM NOMINAL ENERGY	106KWH
BATTERY UPLOAD REQUEST VALUE	5%-95%
BATTERY PROTECTION VALUE	2.7-3.6V
DISCHARGE ENERGY	≥95.4KWH
BATTERY CYCLE EFFICIENCY	≥90%@AC
ASPECT	1794*1024*2160MM
WEIGHT	2300KG
PROTECTION LEVEL	IP54
TEMPERATURE RANGE	-10~50°C
HUMIDITY RANGE	≤95% (NOT-CONDENSING)
MAXIMUM WORKING HEIGHT	3000M(>2000M NEED TO DERATE)
BATTERY TEMPERATURE CONTROL METHOD	AIR COOLING
FIRE PROTECTION SYSTEM	AEROSOL
CERTIFICATION	MSDS,UN38.3,CE,ROHS

Deye 50KW

BCU

Air Conditioner



BREAKER

BATTERY BOX



NILE
SERIES

PUSUNG
SERIES

DIY KIT
SERIES

POLO
SERIES

RV POWER
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INDUSTRIAL AND
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INDUSTRIAL AND COMMERCIALSERIES

145KWH



50KW



Battery Pack



Main control
box



Technical Parameters

PRODUCT PERFORMANCE	145.08KWH
CAPACITY	145.08KWH
VOLTAGE RANGE	405V~591.3V
RATED POWER	50KW
INPUT/OUTPUT VOLTAGE	3L/N/PE230/400VA.C
INPUT/OUTPUT FREQUENCY	50/60HZ
OPERATING HUMIDITY RANGE	≤95% (NO CONDENSATION)
OPERATING TEMPERATURE RANGE	-20~45°C
SIZE	1950*1000*1845MM
WEIGHT	2200KG
IP RATING	IP54
COOLING METHOD	AIR COOLING
FIRE PROTECTION SYSTEM	AEROSOL
COMMUNICATION	CAN/RS485
NOMINAL VOLTAGE	518.4V
RATED CAPACITY	280AH
MAXIMUM CHARGING CURRENT	250A
MAXIMUM DISCHARGE CURRENT	250A
CYCLE LIFE	≥6000 TIMES



- NILE
SERIES
- PUSUNG
SERIES
- DIY KIT
SERIES
- POLO
SERIES
- RV POWER
SUPPLY
SERIES
- SMALL HIGH
VOLTAGEHOME
SERIES
- INDUSTRUAL AND
COMMERCIAL
SERIES

INDUSTRUAL AND
COMMERCIALSERIES

220KWH



Technical Parameters

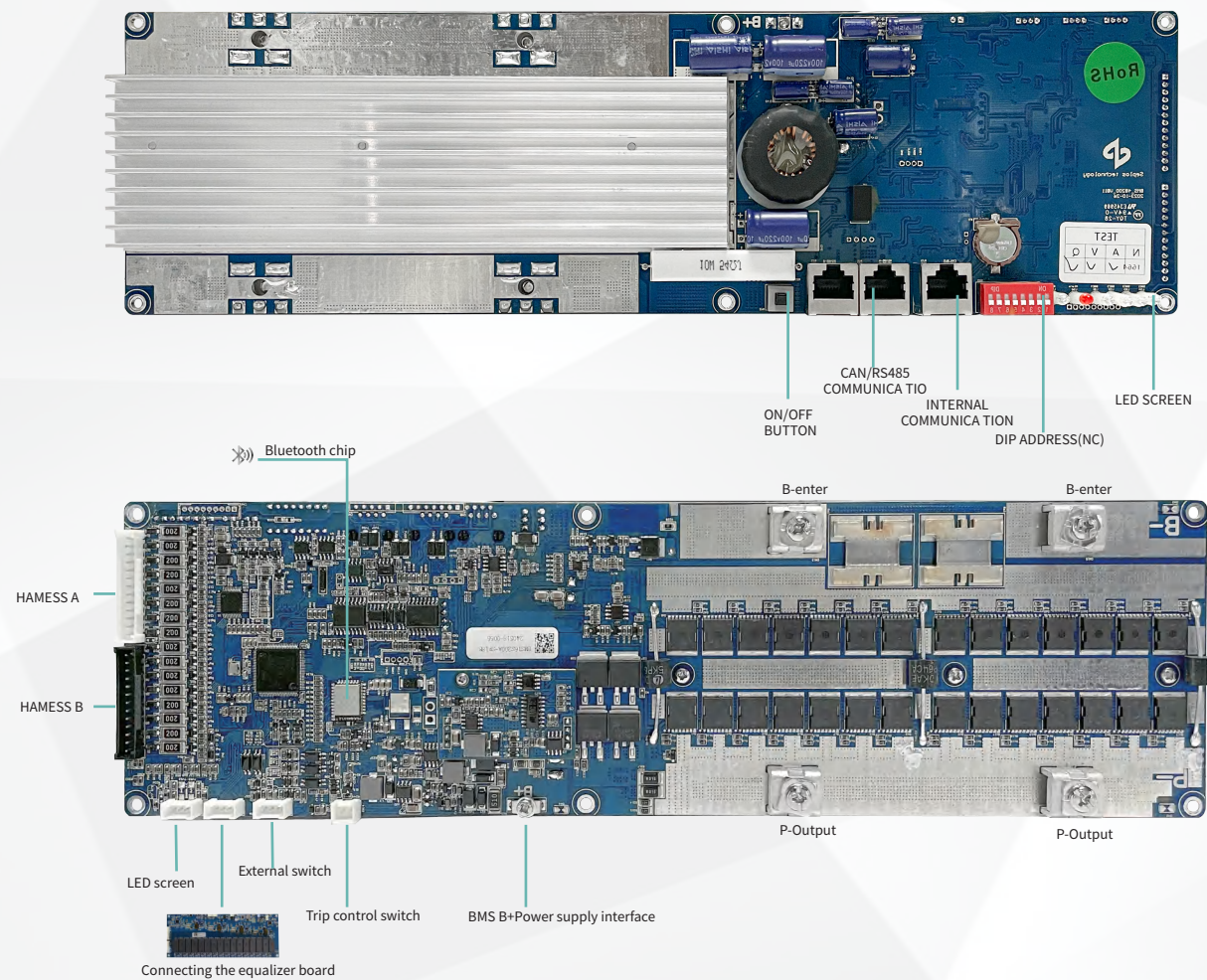
PRODUCT PERFORMANCE	HVS-R215P100-M
DC SIDE VOLTAGE RANGE	594V-792V
OUTPUT VOLTAGE	380V@AC
SYSTEM CONFIGURATION	1P220S
RATED POWER	100KW
MATCHING PCS	100KW
NOMINAL ENERGY OF BATTERY SYSTEM	215KWH
BATTERY UPLOAD REQUEST VALUE	5%-95%
BATTERY PROTECTION VALUE	2.7V-3.6V
DISCHARGEABLE ENERGY	≥193.5KWH
BATTERY CYCLE EFFICIENCY	≥90%@AC
SIZE(L*W*H)	2250*1050*2360mm
WEIGHT	2500KG
IP RATING	IP55
OPERATING TEMPERATURE RANGE	-20-50°C
OPERATING HUMIDITY RANGE	≤95%(NO CONDENSATION)
BATTERY TEMPERATURE CONTROL METHOD	AIR COOLING
FIRE PROTECTION SYSTEM	AEROSOL



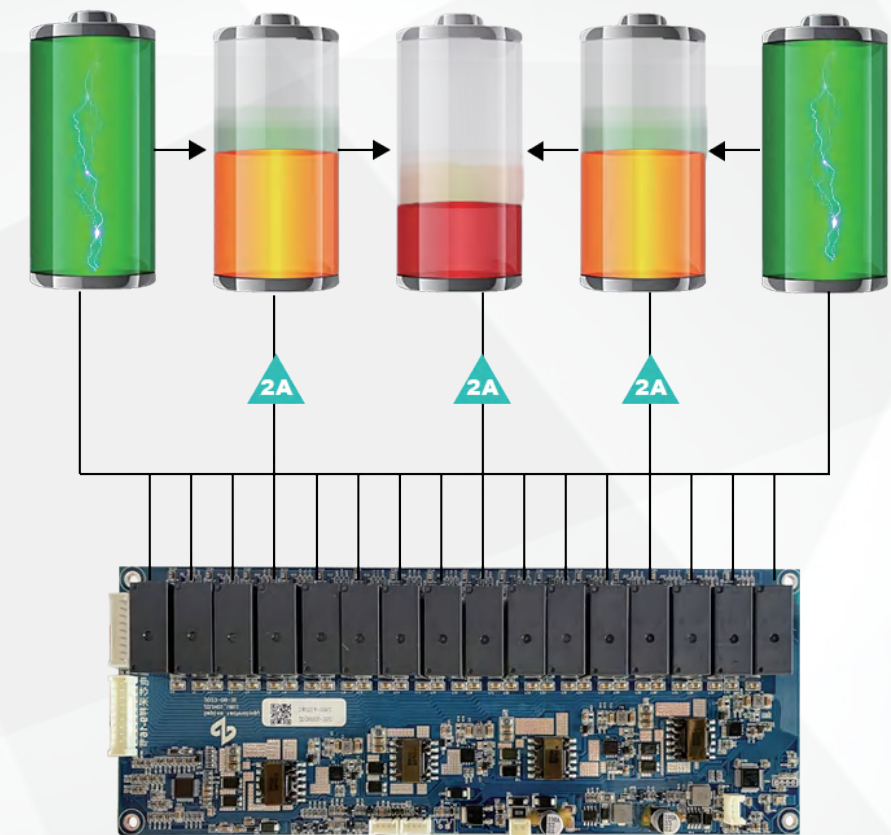
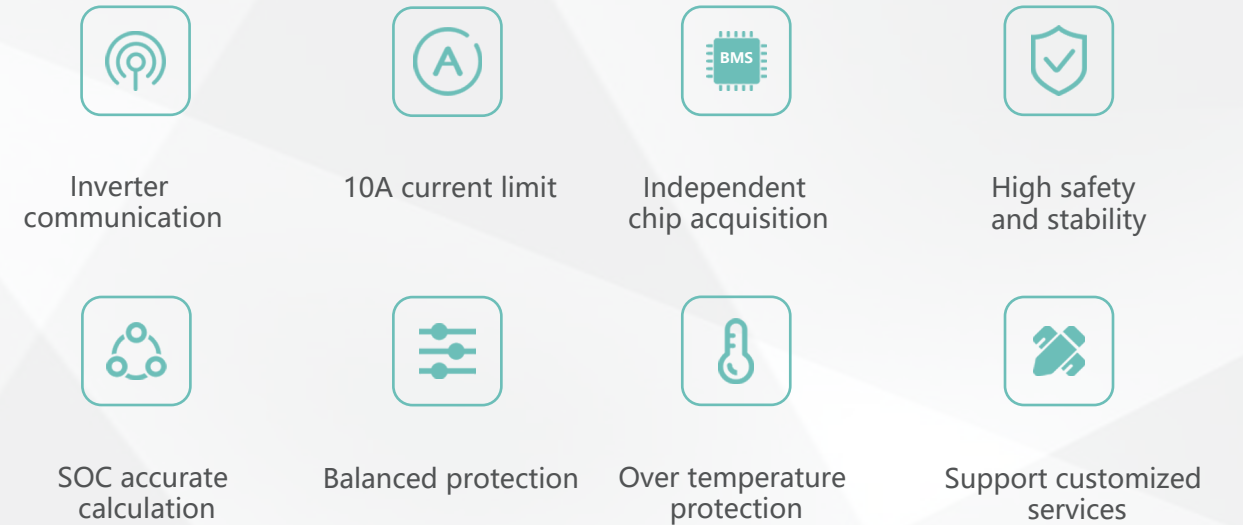


BMS 3.0

Comprehensive safety protection BMS intelligent management system



- 1.Can provide CANBUS/RS485 24V/48V 50A/100A/150A/200A Lifepo4/NCM BMS for prismatic or square lithium battery pack
- 2.Two BMS boards with different communication methods are available:
① BMS using CANBUS communication protocol ② BMS using RS485 communication protocol, flexible selection of BMS
- 3.BMS can support up to 16 units running in parallel.
4. The main functions include: CANBUS communication, RS485 communication, passive balancing, single unit overvoltage protection, over (under) voltage protection... and other protections





THE INVERTER COMMUNICATION PROTOCOL CAN BE SWITCHED ARBITRARILY ON THE DISPLAY SCREEN

SMARTER. MORE EFFICIENT. MORE CONVENIENT



Inverter brand (partial)



Honor and Qualification Certificate

Each of the company's product models has successfully passed multiple authoritative certifications including but not limited to MSDS, CE, UN38.3, etc.
In terms of technology research and development, it has successfully obtained multiple patent certifications such as utility model patents and invention patents, and the company's outstanding strength and core competitiveness in technology innovation and product research and development.



- CE certification
- Design patent certificate
- Invention Patent Certificate
- Utility Model Patent Certificate

30+

Product certification patent

