



江西宁禾科技有限公司 JIANGXI NINGHE TECHNOLOGY CO., LTD

Jiangxi Ninghe Technology Co., Ltd.

- +86 136 1199 1277

2023 NEW PRODUCT

PRODUCT CATALOGUE

Our main business includes solar panels, solar systems, photovoltaic inverters, solar battery, etc.







PRODUCT CONTENT SOLAR PANEL/SOLAR SYSTEM/ SOLAR BATTERY/SOLAR INVERTER

♦ COMPANY PROFILE

Company introduction
Our Culture
Our Advantages
Certification
Factory Display

SOLAR PANEL

Half Cell Solar Panel-Full Black Solar Panel-----410W Full Black Solar Pan Bifacial Solar Panel

♦ SOLAR SYSTEM

On Grid Solar System-----Off Grid Solar System-Hybrid Solar System------Energy Storage System-Foldable Solar System-----

SOLAR BATTERY

Gel Lead Acid Battery-----Rack Mounted Lithium Bat Wall-Mounted Lithium Ba

PROJECT CASES



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COMPANY INTRODUCTION

Jiangxi Ninghe Technology Co., Ltd. We are a photovoltaic energy provider integrating R&D, design, production and construction.

We offer solar systems solution, and solar products including solar panel, solar inverter, solar charging controller, energy storage battery, which can meet your multifarious demands







OUR CULTURE

SLOGAN:

NH solar system, BUILDING A SUSTAINABLE FUTURE

VISION:

Contribute to carbon neutrality and jointly build the Chinese dream

MISSION: *

Strive to promote the harmonious coexistence of man and nature

VALUES: * Integrity, Innovation, Harmony and Win-win

Customer-contric Quality-based Control risks by management Seek development by Innovation



Best Team We have a strong R&D and sales team to serve you with the most professional level

24h Online Service Our mission is to provide best service to our customers and concentrate on building a long time partnership

Full Certifications Our products are certified by TUV(Germany),CE

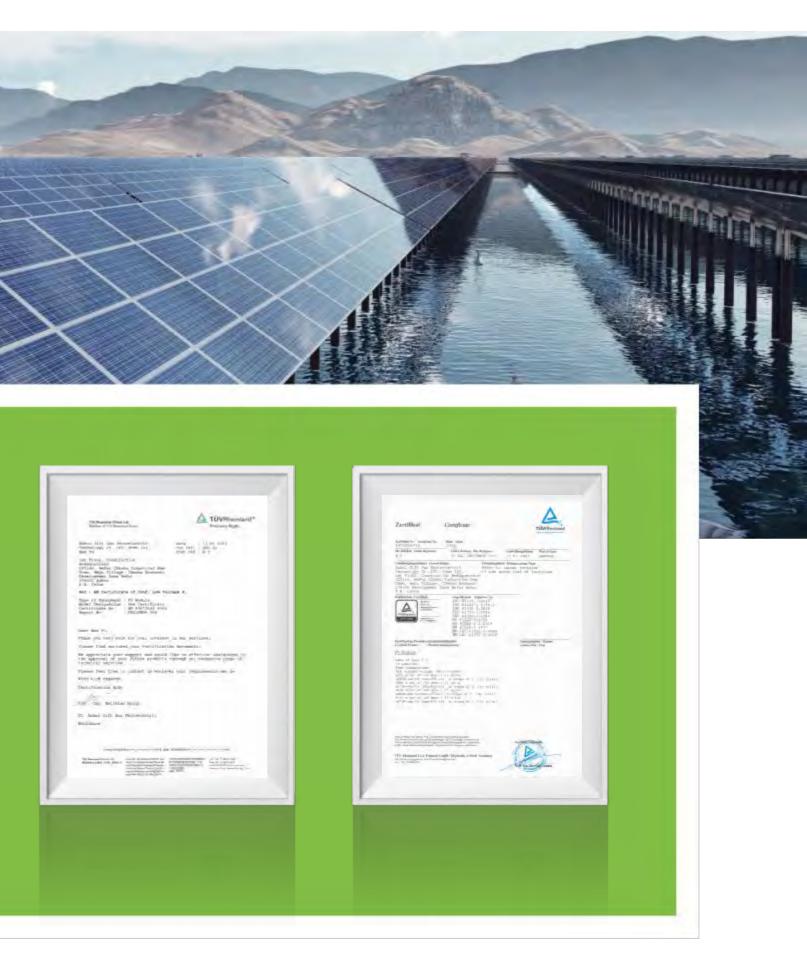




CERTIFICATIONS >>>

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Jiangxi Ninghe Technology Co., Ltd.













Jiangxi Ninghe Technology Co., Ltd, located in Economic and Technological Development Zone in Yichun, Jiangxi province. We are a joint-stock high-tech private technology enterprises, and first batch of science and technology innovation-oriented enterprises in Jiangxi orovince. Mainly engaged in R&D, production and marketing of solar equipment.

We offer solar systems solution, and solar products including solar panel, solar inverter, solar charging controller, energy storage battery, which can meet your multifarious demands

We adhere to the management principles of "quality first, customer first and credit-based" since the establishment of the company and always do our best to satisfy potential needs of our customers. Our company is sincerely willing to cooperate with enterprises from all over the world in order to realize a win-win situation since the trend of economic globalization has developed with anirresistible force.







HALF CELL SOLAR PANEL

12



INCREASE POWER OUTPUT 0~+5W power guarantee



100%

1

REDUCE OCCLUSION LOSS

Very little chance of hot spots, ensuring safe power generation of modules



84 8%

25 Years

STRONGER MECHANICAL LOAD

2400pa reverse load, 5400pa front mechanical load





25 Years Power Warranty

The first year≤3%, 2 -25 years≤0.55%/year





TEST BASIS

IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-1-1:2016 EN 61215-2:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018







166MM 120CELLS

Max power: 380W Module size: 1755x1038x35mm Weight: 20kg Module efficiency: 20.86%



Max power: 465W Module size: 2094x1038x35mm Weight: 24kg Module efficiency: 20.90%





182MM 108CELLS

Max power: 420W Module size: 1722x1134x35mm Weight: 21kg Module efficiency: 21.50%



210MM 110CELLS

Max power: 560W Module size: 2384x1096x35mm Weight: 31kg Module efficiency: 21.43%



182MM 132CELLS

Max power: 515W Module size: 2094x1134x35mm Weight: 26.5kg Module efficiency: 21.27%



210MM 120CELLS

Max power: 615W Module size: 2172x1303x35mm Weight: 33kg Module efficiency: 21.55%



182MM 144CELLS

Max power: 560W Module size: 2279x1134x35mm Weight: 27kg Module efficiency: 21.70%



210MM 132CELLS

Max power: 670W Module size: 2384x1303x35mm Weight: 35kg Module efficiency: 21.60%

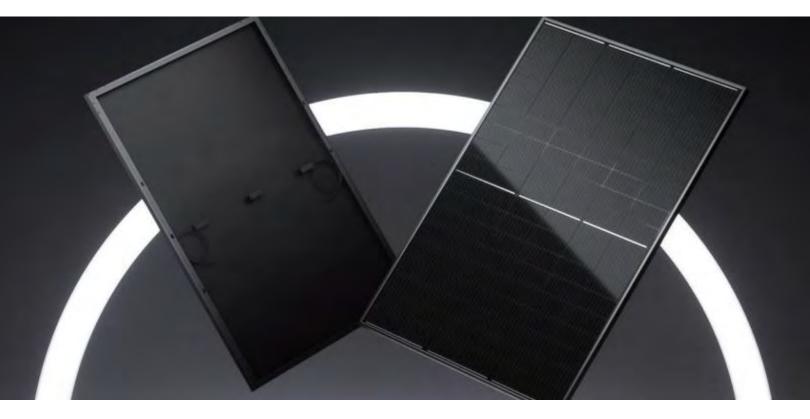








FULL BLACK SOLAR PANEL





210MM 80CELLS

Max power: 410W Module size: 1775x1098x30mm Weight: 21kg Module efficiency: 21.03%



182MM 108CELLS

Max power: 420W Module size: 1722x1134x35mm Weight: 21kg Module efficiency: 21.25%



182MM 120CELLS

Max power: 455W Module size: 1909x1134x35mm Weight: 24kg Module efficiency: 21.32%

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166MM 144CELLS

Max power: 465W Module size: 2094x1038x35mm Weight: 24.5kg Module efficiency: 21.16%



410W 210MM 80CELLS FULL BLACK SOLAR PANEL



12 BUSBAR SOLAR CELL

12 busbar solar cell adopts new technology to improve the efficiency of modules , offers a better aesthetic appearance, making it perfect for rooftop installation

HIGH EFFICIENCY

Higher module conversion efficiency (up to 20.52%) benefit from half cellstructure (low resistance characteristic)

PID RESISTANCE

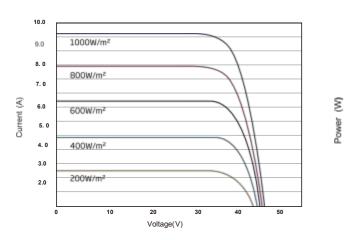
Excellent Anti-PID performance guarantee limited power degradation for mass production.

LOW-LIGHT PERFORMANCE

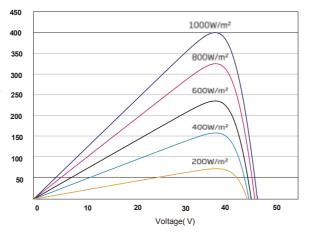
Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



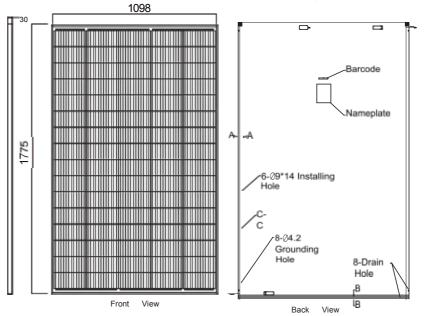
I-V CURVES OF PV MODULE(400W)



P-V CURVES OF PV MODULE(400W)



DIMENSIONS OF PV MODULE(MM)



SPECIFICATIONS

Module	GS40M	-400-410
	STC	STC
Maximum Power Pmax (W)	400	410
Maximum Power Voltage (Vmp/V)	43.30	44.00
Maximum Power Current (Imp/A)	9.24	9.32
Open Circuit Voltage (Voc/V)	52.40	53.24
Short Circuit Current (Isc/A)	9.79	9.88
Module Efficiency (%)	20.52	21.03
Temperature Coefficient of Isc (αIsc)	+0.04	8%/°C
Temperature Coefficient of Voc (βVoc)	-0.29	%/°С
Temperature Coefficient of Pmax (yPmp)	-0.35	%/°С
STC	Irradiance 1000W/m ² , Cell Te	emperature 25°C, Air Mass 1.5

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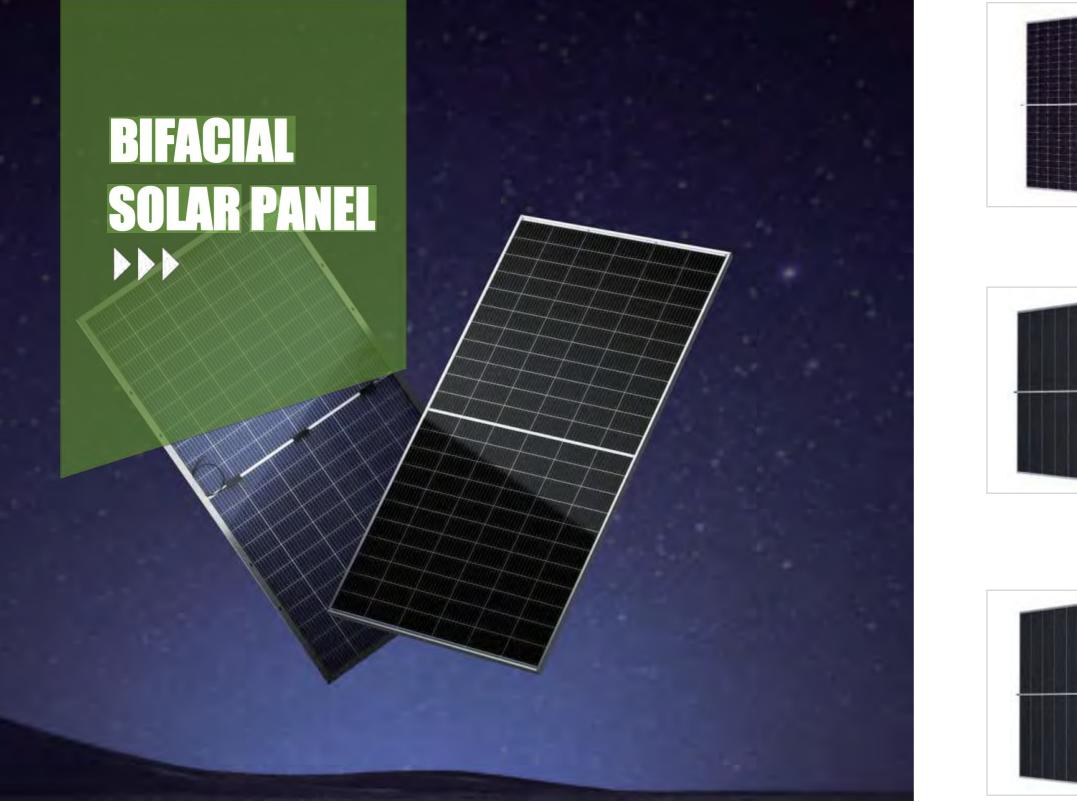
MECHANICAL CHARACTERISTICS

Cell Type	Mono 210x105mm
Weight(kg)	21kg
Glass Thickness	3.2mm
Dimensions (L*W*H)(mm)	1775x1098x28mm
Cable Cross Section Size (mm ²)	4mm ²
No.of Cells and Connections	80(6x15)
Junction Box	IP67
Connector	MC4 Compatiple

PACKAGING CONFIGURATION

Moduels Per Pallet	39PCS
Moduels Per 40HQ	1014PCS











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Max power: 560W Module size: 2279x1134x35mm Weight: 32.2kg Module efficiency: 21.30%



Max power: 615W Module size: 2172x1303x35mm Weight: 35kg Module efficiency: 21.40%

210MM 132CELLS

Max power: 670W Module size: 2384x1303x35mm Weight: 38.5kg Module efficiency: 21.57%



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2.5KW-6KW



7KW-15KW



50KW-80KW

ON GRID **SOLAR SYSTEM**

On-grid solar systemsare by far the most common and widely used by homes and businesses.

These systems do not need batteries and use common solar inverters and are connected to the public electricity grid. Any excess solar power that you generate is exported to the electricity grid and you usually get paid a feed-in-tariff (FiT) or credits for the energy you export.









Solar Inverter On grid inverter



PV Cable Has excellent acid resistance and heat resistance



MC4 Connector Contact material is copperand tin plated



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3KW-15KW



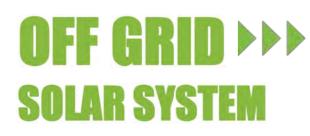
15KW-50KW











Off-grid solar systems operate from the stored energy in a battery bank. Solar panels are used to keep the battery bank charged. Your off-grid solar system has to be sized properly to meet your daily power needs and replace the stored energy pulled from the battery bank.

The high cost of batteries and inverters means off-grid systems are much more expensive than on-grid systems and so are usually only needed in more remote areas that are far from the electricity grid. However battery costs are reducing rapidly, so there is now a growing market for off-grid solar battery systems in both cities and towns.



5KW-30KW





1KW-10KW

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HYBRID SOLAR SYSTEM >>>

Hybrid Solar Energy Kits combine the innovation of both on-grid(grid-tied) and off-grid technologies and are offered as on grid(grid-tie) solar with battery bank storage. Hybrid Solar Energy Kits generate electricity, not only can be used, also can be stored for night use .What is more, extra energy can be sold back to utility company. This is perfect for home owners. Although for the majority of businesses which operate during the daylight hours, a common hybrid solar system is still the most economical choice.

Our Hybrid Solar systems can seamlessly adjust to fluctuations in energy from both the utility and the solar array maximizing the energy storage and consumption. Users can decide when and how many energy is be stored and sold back to the utility company.



8KW



3KW-6KW

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3KW-6KW

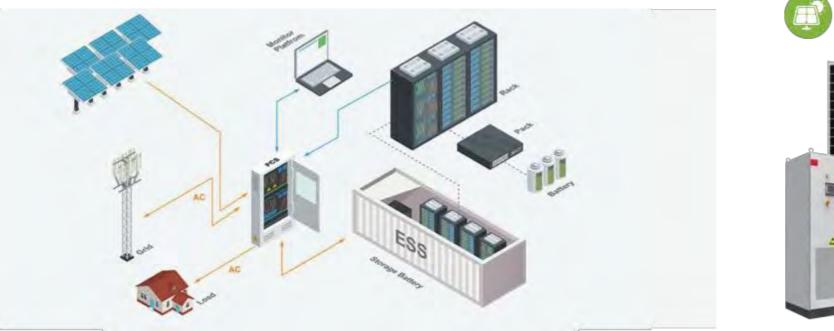


8KW-12KW



ENERGY STORAGE SYSTEM >>>





30-ENER

30-150KW ENERGY STORAGE SYSTEM



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Battery energy storage system (BESS) containers are based on a modular design. They can be configured to match the required power and capacity requirements of client's application.Our containerised energy storage system (BESS) is the perfect solution for large-scale energy storage projects. The energy storage containers can be used in the integration of various storage technologies and for different purposes





FOLDABLE SOLAR SYSTEM

Giftsun foldable solar system adopts the latest technology. It can be hung on the wall, adjusted at any angle, and equipped with a micro inverter. It is installed on the back of the module. It does not take up space and is easy to use. When not in use, the bracket can be folded up for easy storage





The system integrates with solar panel, inverter, cables and mounting bracket, all components ready

Microinverter

Easy Installation

No requirement for professional installation team, quick assembly in 10 minutes

Guaranteed Quality

10 years quality warranty,25 years extra linear power output warranty on solar panel

SYSTEM COMPOSITION



WVC-1200 MICROINVERTER

This micro inverter can be connected through mobile phone APP to observe the working condition and historical data of the machine in real time

Output power: 1200W Size(L*W*H): 370x330x41.6mm Weight: 3kg Temperature Range: -40°C~+65°C

TO-2 induced environment analysis

- Actual DC input voltage, current and power
- Inverter temperature
- (W) Optional limitation of power output

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410W FULL BLACK SOLAR PANEL

Max power: 410W Module size:1775x1098x28mm Weight: 21kg Module efficiency: 21.03%



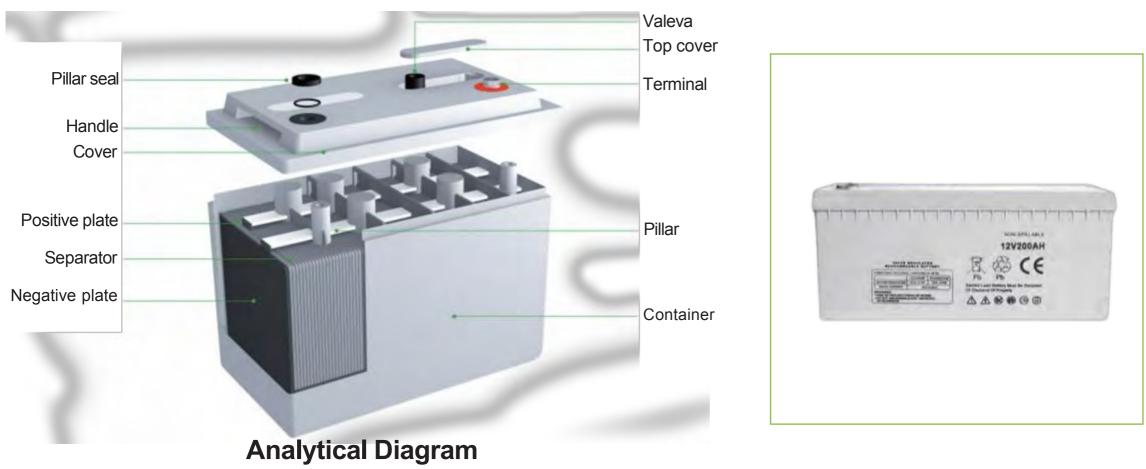
Daily and total energy generation in kWh Actual AC output voltage, current and power Historical(daily,weekly,monthly)power curve Online switch for the inverter start stop

GEL LEAD **>>>** ACID BATTERY

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Gel lead-acid battery is an improvement of ordinary lead-acid battery with liquid electrolyte. The colloid electrolyte is used to replace sulphuric acid electrolyte. Compared with ordinary battery, the gel electrolyte has better safety, storage capacity, discharge performance and service life







Nominal Capacity

- 12V100AH 12V150AH
- 12V200AH 12V250AH

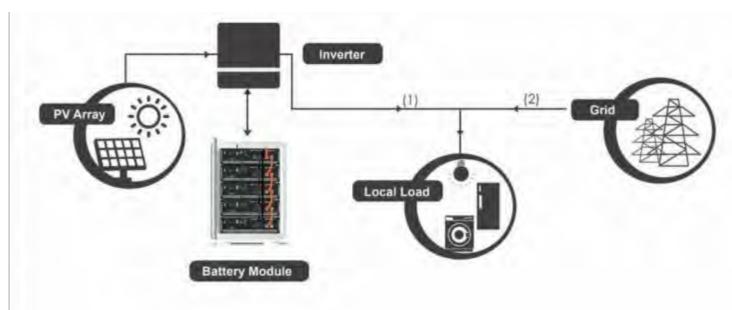
Battery Features

- ☆ Deep cycle long lifespan
- ☆ High discharge performance
- \bigstar Easy installation and maintenance-free
- The designed life for the battery could be eight years up for float use
- Contemporary advanced technology research and developent of new high- performance battery



RACK MOUNTED LITHIUM BATTERY

Lithium-ion battery is a kind of battery which is made of lithium metal or lithium alloy as positive/negative material and uses non-aqueous electrolyte solution.



Working Principle



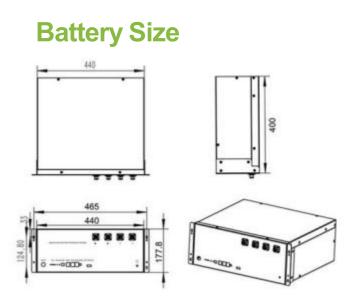
Safety, environment friendly, pollution-free

- Fast charging and low self-discharge
- Built-in battery protection



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- Long life 3000-5000 cycles
- 70% lighter than lead lithium
- (100% depth of discharge





WALL- MOUNTED LITHIUM BATTERY

Wall-mounted lithium battery has the characteristics of high voltage, high capacity, long life, environmental protection and pollution-free. It uses high-purity raw materials, small self discharge electrode, special design and highly reliable sealing technology to ensure battery sealing, safe and reliable use. It also has excellent over discharge recovery ability and longer service life









OT48100

Nominal Voltage: 48V/51.2V Nominal Capacity: 100AH/200AH Dimension:610*450*200mm/950*580*250mm Charge/Discharge Current:50A/100A

LFPWALL-5000

Nominal Voltage: 51.2V Nominal Capacity: 50AH/100AH/200AH Dimension:537*365*196mm/542*468*197mm Charge/Discharge Current:35A/70A/100A

SP5000U/SP7000U/SP10000U

Nominal Voltage: 48V/51.2V Nominal Capacity: 100AH/150AH/200AH Dimension:680*485*180mm Charge/Discharge Current:100A/150A





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