

RESIDENTIAL SOLAR POWER SOLUTION

STORAGE SOLUTION



Premium High Performance
Solar Modules
and System



2024

ROCKPORT TRADING

Add:1692 1 ViaDeSantaFe Rancho Santa Fe California 92067

Web:www.rockport.dreamhosters.com

Email: info@rockporttrading.org



CATALOGUE

ALL IN ONE SOLAR SYSTEM

RESIDENTIAL SOLAR POWER SOLUTION

ROCKPORTTRADING is a professional manufacturer

of solar energy systems and a distributor of top-quality related products, such as solar panels, inverters, solar batteries and so on. We adopt the latest technology and equipment to ensure our solar systems to be high-efficient, reliable, and long-lasting.

We pursue innovation, reliability, and responsibility, and we strive to uphold these values in all aspects of our business. Adhering to the core culture of "Thanksgiving", and we believe that only on the basis of trust, respect, and gratitude can we build strong and long-term relationships with our customers.

1

HYBRID SOLAR ENERGY SYSTEM

Hybrid energystorage system is a photovoltaic and energy storage integrated optical storage system, the system provides a variety of working modes, convenient for the user's electricity cost, to ensure the stability of electricity consumption.

2

OFF GRID SOLAR POWER SYSTEM

Off-gridphotovoltaic power generation systems can generate and consume electricity locally. It makes full use of the characteristics of the widespread existence of solar energy and supplies power to the load through photovoltaic modules, solar controllers, and inverters. At the same time, it also charges the battery bank. When the photovoltaic power is not enough, the energy storage battery will be used to power the load through the controller and inverter. It is characterized by simple installation and flexible design.

3

ON GRID SOLAR POWER PLANT

Grid connection refersto the connectionof power generationequipment to the power system, facilitating bidirectional energy transmission and exchange. In the energy industry, it is a key aspect of renewable energy generation and a necessary condition for advancing clean energy development.

4

OTHER

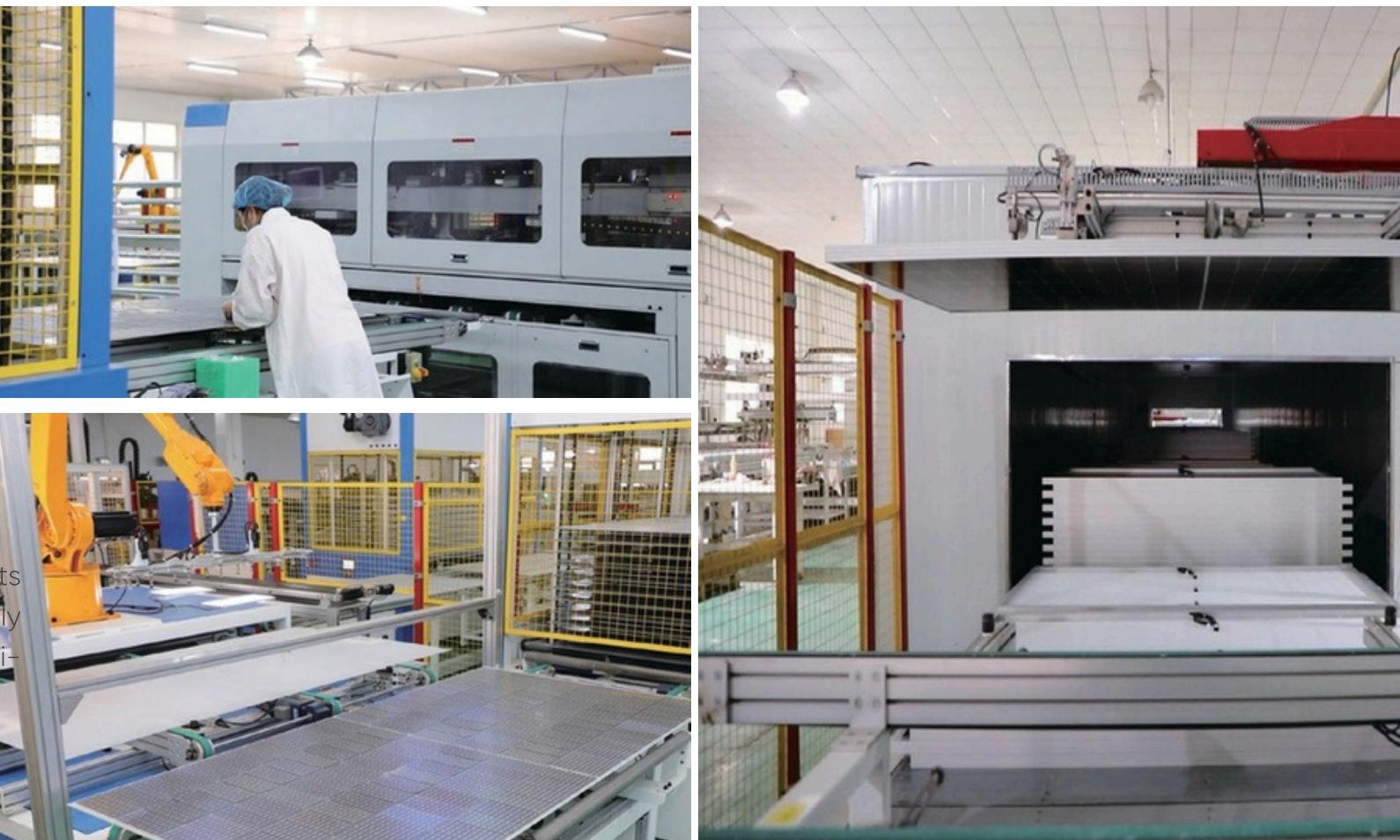


OUR COMPANY

ROCKPORT TRADING is a professional enterprise specializing in the research, development, production, and sales of solar panels. Our factory is headquartered in USA and has a modern production base and advanced production equipment, committed to providing high-quality solar products and excellent service to customers worldwide.

Our solar panels are manufactured using the latest technology and processes to ensure high efficiency and long lifespan. Product range covers multicrystalline solar panels, monocrystalline solar panels, as well as a range of components and accessories related to solar panels. These products are widely used in various fields such as rooftops, agriculture, industry, public utilities, and residential use.

The company has a dynamic and innovative R&D team that continuously launches new products and technologies to meet customer demand for solar products. Our production processes strictly adhere to the ISO 9001 quality management system to ensure product quality and stability. Additionally, our products have obtained relevant certifications such as German TUV, CE, etc.



HYBRID SOLAR ENERGY SYSTEM

10 - 50 kW



Solar Panel



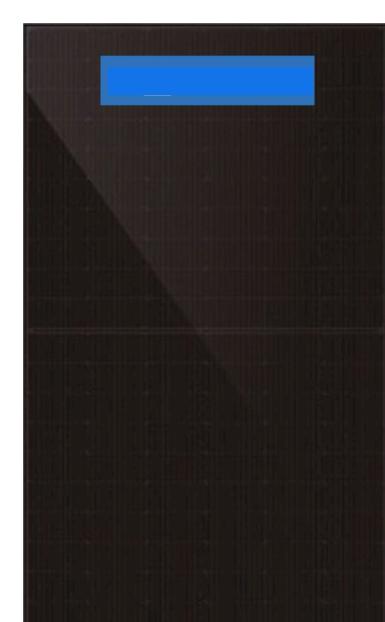
LTB182-410-430B TOPCON
Bifacial Monocrystalline Module

Number of Cells	108Cells [6x18]
Dimensions of Module L*W*H [mm]	1722x1134x30mm
Weight [kg]	22.0 kg
Front Side Glass	High transparency solar glass 2.0mm
Back Side Glass	High transparency solar glass 2.0mm
Frame	Black Anodized Aluminium Alloy
Junction Box	IP68 rated
Number of diodes	3
Connector	MC4



LRS182-54H 400~420W
Higher Output Power Low Light Features
Harsh Environmental

Cell Orientation	108 (6x18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 300mm in length, length can be customized
Glass	Single glass 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight:	20.5kg±3%
Dimensions	1722x1134x30mm
Packaging	36pcs per pallet 936pcs per 40'GP



LRS182-60HB 440~460W
Higher Output Power Low Light Features
Harsh Environmental

Cell Orientation	120 (6x20)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 350mm in length, length can be customized
Glass	Single glass 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight:	20.5kg±3%
Dimensions	1910x1134x35mm
Packaging	31pcs per pallet 744pcs per 40'GP

Hybrid Inverter



THREE PHASE HYBRID INVERTER

SUN- 8 / 10 /12 K-SGO4LP3-EU

- 100% unbalanced output, each phase; Max. output up to 50% rated power
- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation, Support multiple batteries parallel
- Max. charging/discharging current of 240A
- 48V low voltage battery, transformer isolation design
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator



SPLIT- PHASE INVERTER

Battery voltage: 48V

- Max. 3 pcs in parallel
- Support multi-machine parallel mode sharing a battery pack; Single-machine load capacity 100A
- Support parallel SOC equalization control and parallel current sharing control
- Using split-phase topology and eliminating the transformers, to make the system efficiency higher
- Support the diesel generator and the grid access at the same time



GROWATT HYBRID INVERTER

SPH 3000-6000TL BL-UP

- Smart load management via dry contact
- UPS function, 10ms transition
- Scalable system configuration
- VPP interface ready
- Remote smart O&M 2 DC/AC Ratio
-
-



ALL-IN-ONE SOLAR CHARGE INVERTER

SPI-8K-U/SPI-10K-U

- Load friendly: Stable sine wave AC output via SPWM modulation
- Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
- Dual LFP battery activation method: PV&mains
- Uninterrupted power supply: simultaneous connection to utility grid/generator and PV
- Intelligent programming: the priority of the output from different energy sources can be set

HIGH VOLTAGE THREE PHASE HYBRID INVERTER

4.0KW/5.0KW/6.0KW/8.0KW/10.0KW/12.0KW

Big LCD display

Power export limit

Big LCD display

Power export limit



HYBRID INVERTER/THREE-PHASE

12-20KW

Safe and reliable

IP65 protection

Easy Installation

PV & storage system



SOLAR HYBRID INVERTER

LOVSUN SYP-5K-U

Safe and reliable

ON/OFF switch controls the inverter AC output

Easy Installation

PV & storage system



Battery

LFP-POWERWALL BOX

48V100AH/48V200AH

Wall mounted battery&compact design ease of installation
Compatible with multiple inverters Multiple communication interfaces
RS232,RS485,CAN
Ip21 Protection, indoor application
Use of parallel connection;from 2 to 10 modules
High energy density,110wh/kg
Multiple protection LiFePO4 material, safe and long life



POWERWALL LITHIUM BATTERY

51.2V100AH/51.2V200AH

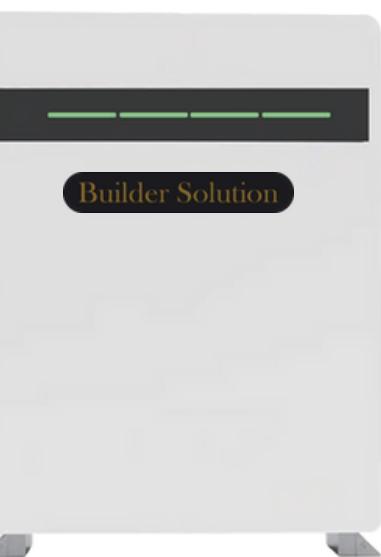
Vertical industry integration ensures more than 6000 cycles with 80% DoD.Safe Lithium iron phosphate battery cell.
Just plug and play to minimize the installation time and cost.Compact and fashionable design fits in your sweet homeenvironment.
Compatible with most of the available Hybrid inverters
UL1642,IEC62619,CE UN38 .3.MSDS



51.2V WALL MOUNTED LIFEPO4 BATTERY

5KWH/7.5KWH/10KWH

6000 cycles at 80% DOD
1C/1C continual charge and discharge
10 Years (board 5 years, cell 10 years)
Superior LiFePO4 safety performance
Low voltage safety connection
Max. 8 modules parallel



LIFEPO4 HIGH VOLTAGE BATTERY

10kwh-20kwh

6000 Cycle Life@25°C
5120/10240W Capacity
7680/10200W Peak Power
No DIP Switch Automatically Assign Module Address
Solid-State LFP Battery Cells
1.5C Discharging Rate
Increase 8% Energy Density
93% Max.Recommended DOD (Capacity)



Lovsun HV BATTERY PACK

10-40kWh

- Long Design Life
- Multiple Protection
- Modular Design

- Dekra Certification
- Scalable&Flexible
- Easy Maintenance



RESIDENTIAL ESSS

9.6kwh/14.4kWh/19.2kWh

- LiFePO4 Safe Battery Chemistry
- Remote software program update, fault diagnosis
- Visual interface, real-time monitoring of product status
- >6,000 Cycles at 90% DOD
- Easy Installation & After Sales Service
- High energy density

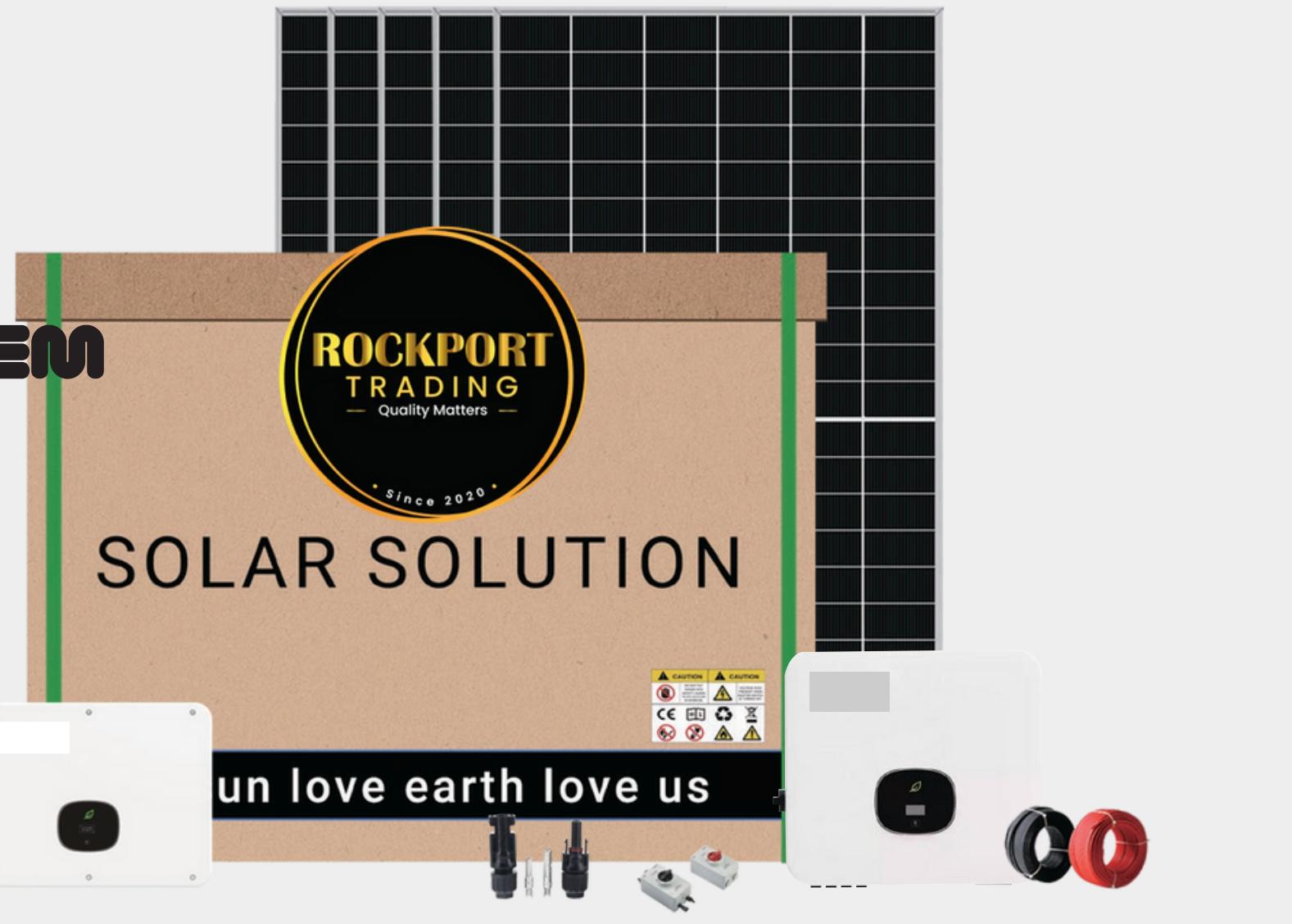


COMMERCIAL ON GRID PHOTOVOLTAIC SOLAR SYSTEM

50-150kW



SOLAR PANEL: MONO/POLY HALFCELL/FULLCELL GRID BLACK SOLAR PANEL
SOLAR INVERTER: FLEXIBLE FULLON GRID INVERTER
SOLAR CONTROLLER: MPPT/PWM CONTROLLER
MC4 CONNECTOR: CONTACT MATERIAL IS COPPER AND TIN PLATED
PV CABLE: HAS EXCELLENT ACID RESISTANCE AND HEAT RESISTANCE



Solar Panel



LRS182-72H 535~560W

Higher Output Power Low Light Features
Harsh Environmental

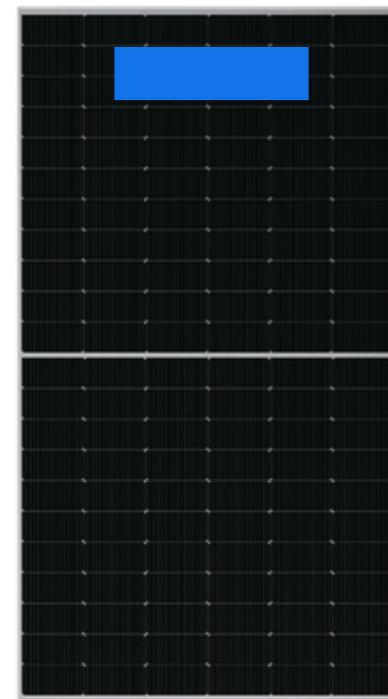
Cell	144 (6x24)
Orientation	IP68, three diodes
Junction	4mm2, 300mm in length,
Box Output	length can be customized
Glass	Single glass
	3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight:	28kg±3%
Dimensions	2279x1134x30mm
on	36pcs per pallet
Packaging	720pcs per 40'ft Container



LRS182-72HB 570~600W

182mm Cells All Black Mono PERC with
MBB & Half-cut Technology

Cell Orientation	156 (6x26)
Junction Box	IP68, three diodes
Output Cable	4mm2, 300mm in length,
	length can be customized
Glass	Single glass
	3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight:	30.5kg±3%
Dimensions	2465x1134x35mm
on	31pcs per pallet
Packaging	496pcs per 40'ft Container



LRS210-66H 660~685W

Higher Output Power Low Light Features
Harsh Environmental

Cell Orientation	132 (6x22)
Junction Box	IP68, three diodes
Output Cable	4mm2, 300mm in length,
	length can be customized
Glass	Single glass
	3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight:	33.6kg±3%
Dimensions	2384x1303x35mm
on	31pcs per pallet
Packaging	558pcs per 40'GP

ON GRID INVERTER



MOD 10~15K TL3-X

- Max. efficiency 98.6%
- OLED and touch button
- Type II SPD on DC and AC side
- String monitoring
- AFCI function ready



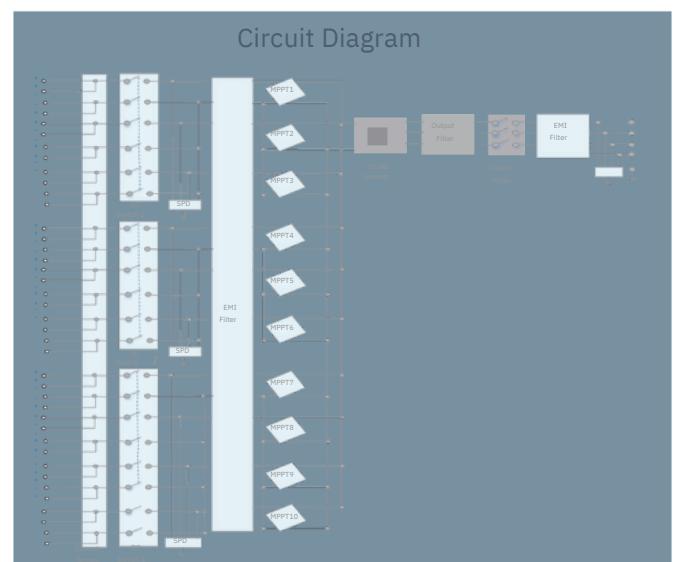
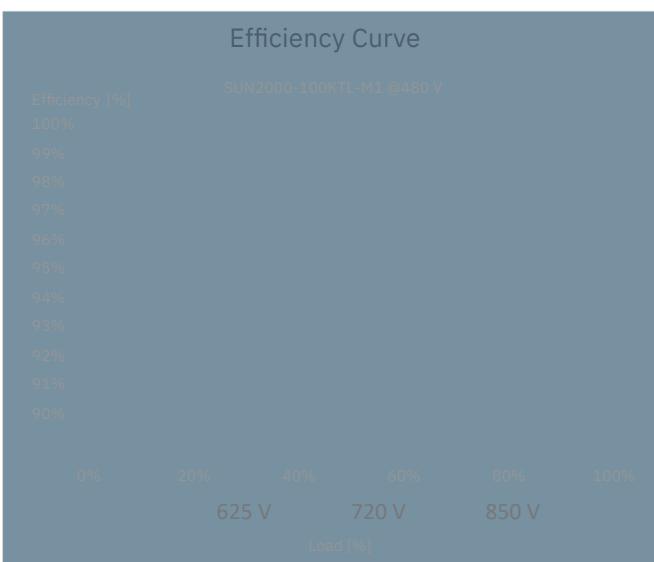
SUN200-0100KTL-M1

- 10 MPP Trackers
- 98.8% (@480V) Max. Efficiency
- String-level Management
- MBUS Supported
- Smart I-V Curve Diagnosis Supported
- Fuse Free Design



MID 15~25KTL3-X

- Max. efficiency 98.75%
- Dual MPP trackers
- Supports export control
- Touch key and OLED display
- Type II SPD on AC and DC side



OFF GRID SOLAR SOLAR SYSTEM

3 - 30 KW



SOLAR PANEL MONO/POLY HALFCELL/FLEXIBLE BLACK SOLAR PANEL
SOLAR INVERTER OFF GRID INVERTER
SOLAR CONTROLLER MPPT/PWM CONTROLLER
MC4 CONNECTOR CONTACT MATERIAL IS COPPER AND TIN PLATED
PV CABLE HAS EXCELLENT ACID RESISTANCE AND HEAT RESISTANCE
BATTERY BANK LITHIUM BATTERY/GEL BATTERY



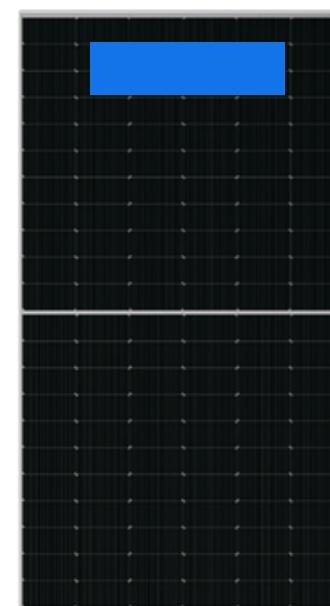
Solar Panel



LTS182-560-580W TOPCON

144 Half-Cell Layout

Solar Cells	N-type Mono
No. of Cells	144(6x24)
Dimensions	2279 x 1134 x 35mm
Weight Front	27.5kgs
Glass Frame	3.2mm coated tempered glass
Junction Box	Anodized aluminium alloy
	IP68 rated (3 by pass diodes)
	4.0mm ² /300mm(+)/300mm(-)
	Length can be customized
Output Cables	MC4 compatible
Connectors	5400Pa
Mechanical load test	



LRS210-66H 675~700W

Higher Output Power Low Light Features
Harsh Environmental

Cell Orientation	132 (6x22)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 300mm in length, length can be customized
Glass	Single glass
Frame	3.2mm coated tempered glass
Weight:	Anodized aluminum alloy frame
Dimensions	33.6kg±3%
on	2384x1303x35mm
Packagi	31pcs per pallet
ng	558pcs per 40'GP



LTB182-410-430s+ TYPE

144 MONO-BIFACIAL

Cell Type	182 N type Mono-crystalline
No. of cells	144(6x24)
Dimensions	2278x1134x35mm
Weight	32.3 kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0mm
Connector	MC4 compatible or MC compatible



OFF GRID SOLAR INVERTER

3-5KW

Pure sinewave inverter
 Overload and shortCircuit protection
 Auto restart whileAC is recovering
 Cold start function



OFF GRID SOLAR INVERTER

4-6KW

Dual output for smart load management
 MaximumPV input current 27A
 Support USB On-the Go function
 Data log eventstored in the inverter



SP SERIES HYBRID SOLAR INVERTER

3-6.2KW

Pure sine wave inverter
 Programmable supply priority for PV, battery or Grid
 High PV input voltage range(55~450VDC)
 Built-in Max110A(3.6KW&6.2KW)MPPTsolar charge
 Compatible with lithium-ion battery
 Support BMS communication with Lithium battery
 Smart battery charge design to optimize battery life



SPF 3000TL LVM-ES

Inversor Cargador

Controlador de carga con MPPT integrado
 Función de carga de compensación
 Funciona con o sin batería
 Voltaje de entrada FV hasta 250 VDC



Battery

48V RACK LITHIUM BATTERY

5kWh 10kWh Energy Storage

LFP-Rack box, a Low-voltage lithium battery. With a scalable modular design, the capacity range can be expanded from 5.12kWh to 51.2kWh. The modules are connected by cables to support high-power work and are easy to install and maintain. Long life technology ensures more than 6000 cycles with 90% DOD



STATELITHIUM BATTERY ESS

LFP 5120M/10240M

6000 Cycle Life@25°C
5120/10240W Capacity
7680/10200W Peak Power
No DIP Switch Automatically Assign Module Address
Solid-State LFP Battery Cells
1.5C Discharging Rate
Increase 8% Energy Density
93% Max. Recommended DOD (Capacity)



12V GEL BATTERY

100-250ah

6 Maintenance free
Safety and no leakage
Excellent recharge and discharge performance
Low self-discharge rate
Adapt to high or low temperature
Good deep discharge performance
Longer cycle life



PV CABLES

PVCables in 4mm² and 6mm², with TUV Certificate



DC AC SWITCH



BYH-32 true DC isolator switch in IP66 enclosure is developed for solar residential and commercial PV rooftop systems, should be installed between solar panels and inverter for DC power isolation.

MC4 CONNECTOR

MC4 PV Connectors 1000V, with TUV Certificate
Rated current: 30A
Rated voltage: 1000VDC



OUTDOOR CABINET ESS 50KW/100KWH



OUTDOOR CABINET ESS 100KW/215KWH



Features



All-in-one hybrid inverter



Seamless on/off grid transfer
within 10 ms



Programmable working mode



Support remote control of DG



Intelligent and efficient



Diversified function



Outdoor Cabinet ESS
Smarter,Cleaner,Healthier Life!

Integration Product: power module, battery, refrigeration, fire protection, dynamic environment monitoring and energy management in one. It is suitable for microgrid scenarios such as small-scale commercial and industrial energy storage, photovoltaic diesel storage, and photovoltaic storage and charging. The local control screen can perform a variety of functions, such as monitoring system operation, formulating energy management strategies, and upgrading remote equipment.

Tile Roof Hook Solar PV Mounting System



Tile Hook 1

Feet and Hanger Bolt Kit Metal Roof PV Mounting System



Technical Parameters

System	Name	MRac Tile Hook Pitched Roof Tile, Flat Tile,	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site		Slate Tile, Asphalt Shingle Tile 5-45°		International Building Code IBC 2009,
Foundation Tilt Angle		≤60m/s ≤1.6KN/m ² Framed or Frameless		California Building Code CBC 2010
Wind Load	Snow Load	Portrait or Landscape	Hook Material	AL6005-T5(Anodized)
Applicable Solar Module			Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Panel Layout			Small Components	AL6005-T5(Anodized)
			Color	Silver or Customized
			Warranty	10 Years

Technical Parameters

System	Name	MRac L Feet Kit & Hanger Bolt Kit	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site		Pitched Roof Trapezoidal Roof 0°		International Building Code IBC 2009,
Foundation Tilt Angle		≤60m/s ≤1.6KN/m ² Framed or		California Building Code CBC 2010
Wind Load	Snow Load	Frameless Portrait or Landscape	Material	AL6005-T5(Anodized)
Applicable Solar Module			Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Panel Layout			Small Components	AL6005-T5(Anodized)
			Color	Silver or Customized
			Warranty	10-Year Warranty

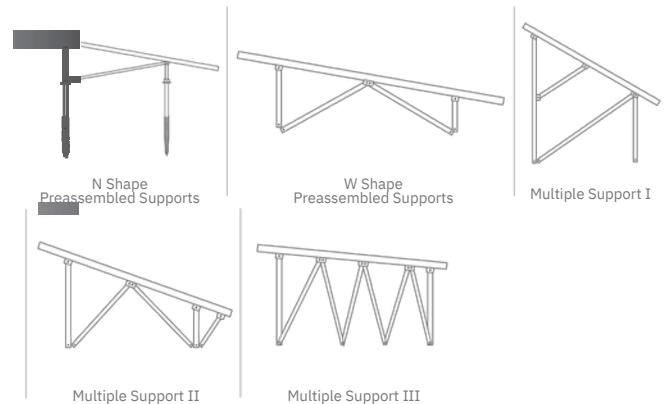
Balcony Solar Mounting System



Technical Parameters

System Name	MRac Balcony Solar Mounting System	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Balcony		International Building Code IBC 2009,
Installation Base	Metal Railings, Wall, Concrete Roof		California Building Code CBC 2010
Mounting Angle	10°-30°	Material	Steel & AL6005-T5
Wind Load	≤30m/s	Fastener	SUS304
Snow Load	≤1.0KN/m ²	Small Components	AL6005-T5
Applicable Solar Module	Framed	Color	Natural Silver or Customized
Panel Layout	Horizontal	Warranty	10-Year Warranty

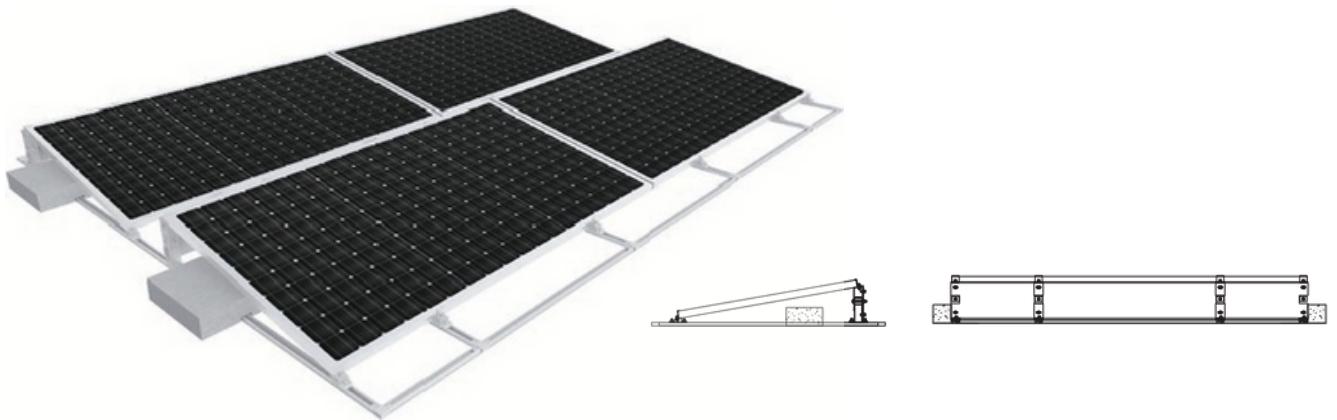
Ground Mounting System



Technical Parameters

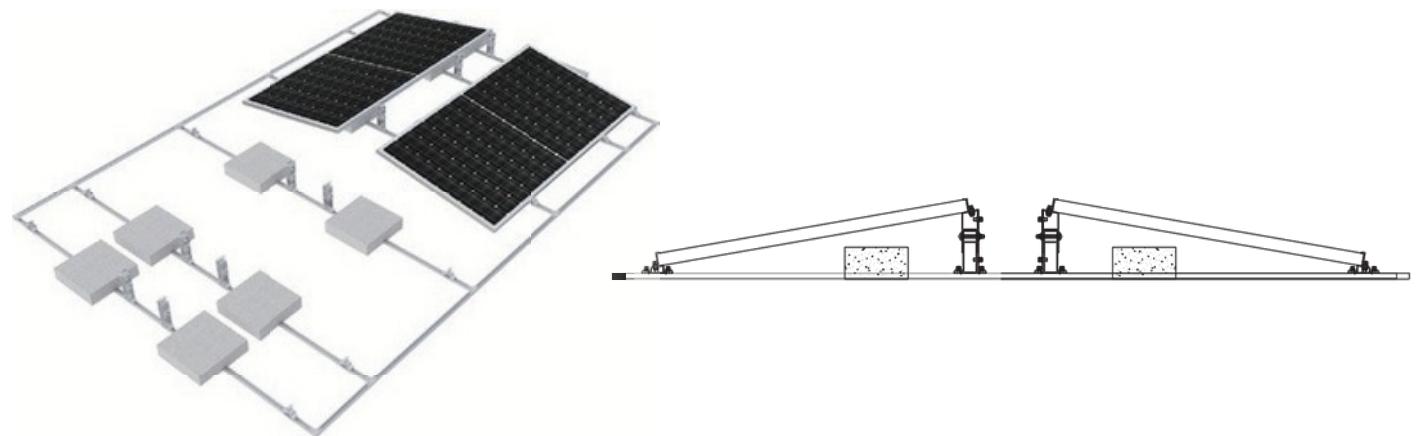
Installation Site	Ground	Concrete Base or	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Foundation Tilt Angle	Ground Screw	0-60° ≤60m/s		International Building Code IBC 2009,
Wind Load	Snow Load	≤1.6KN/m ² ≤500-2000mm		California Building Code CBC 2010
Ground Clearance		Framed or Frameless Portrait	Material	AL6005-T5(Anodized)
Applicable Solar Module		or Landscape	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Panel Layout			Small Components	AL6005-T5(Anodized)
			Color	Silver or Customized
			Warranty	10-Year Warranty

Roof Solar PV Mounting System RM-Ad



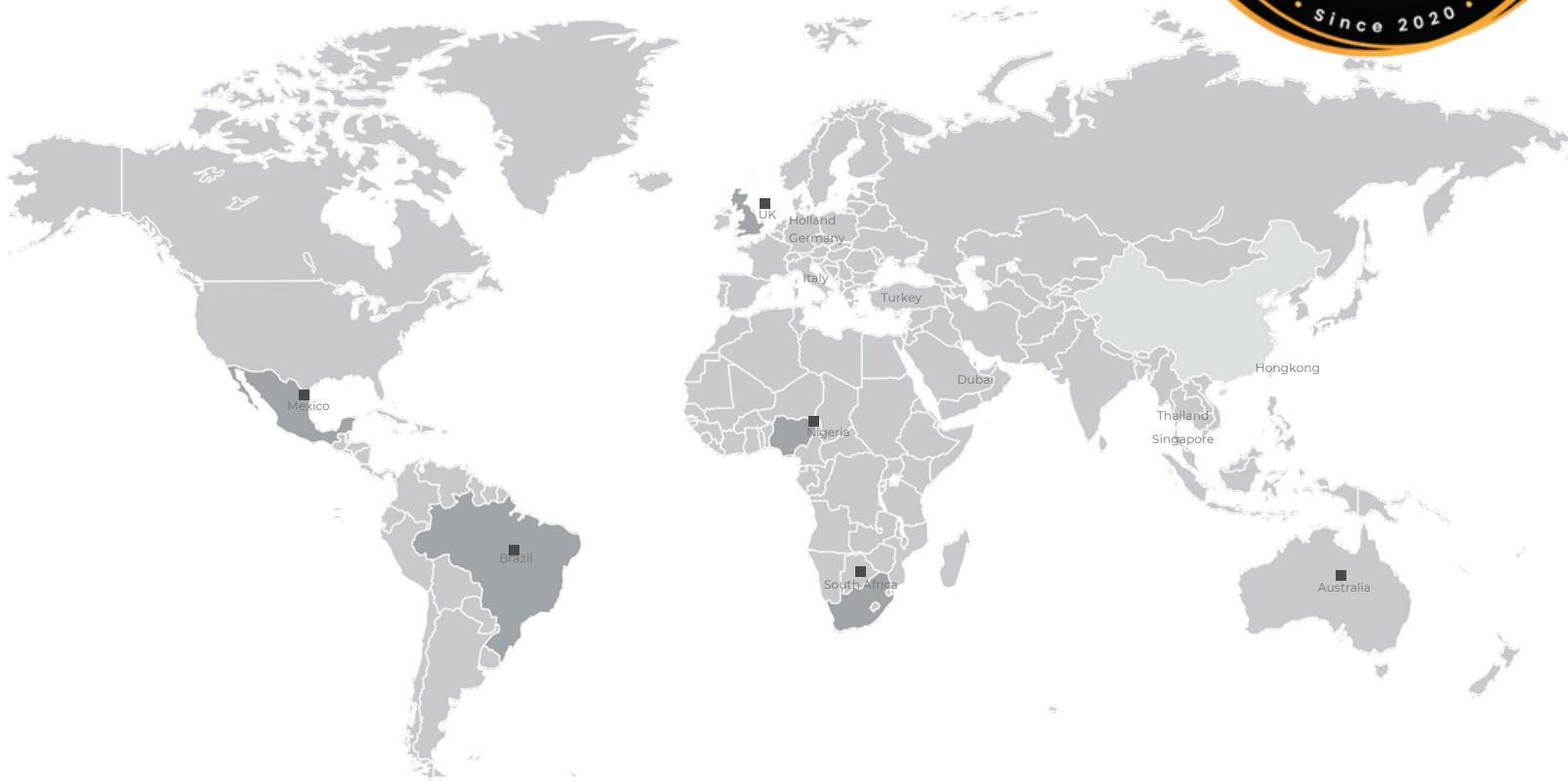
Technical Parameters

System	Name	MRac Roof Solar PV Mounting System RM-Ad	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Roof	Flat Concrete roof, Flat ground, Membrane roof		International Building Code IBC 2009,
Type	Tilt Angle Wind	Concrete Ballast		California Building Code CBC 2010
Load	Snow Load	0-30°	Material	Q235B(Hot-Dip Galvanized) AL6005-T5(Anodized)
Applicable Solar Module		≤44m/s	Fastener	SUS304, Hot Dip Galvanized, Zinc-Nickel Alloy Electroplated Steel
Panel Layout		≤1.6KN/m ²	Small Components	AL6005-T5(Anodized)
		Framed/Frameless, Any width panel	Color	Silver or Customized
		Landscape	Warranty	10-Year Warranty

Roof Solar PV Mounting System RM-Ad
Symmetric Ballast

Technical Parameters

System	Name	MRac Roof Solar PV Mounting System RM-Ad	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Roof	Flat Concrete roof, Flat ground, Membrane roof		International Building Code IBC 2009,
Type	Tilt Angle Wind	Concrete Ballast		California Building Code CBC 2010
Load	Snow Load	0-30°	Material	Q235B(Hot-Dip Galvanized) AL6005-T5(Anodized)
Applicable Solar Module		≤44m/s	Fastener	SUS304, Hot Dip Galvanized, Zinc-Nickel Alloy Electroplated Steel
Panel Layout		≤1.6KN/m ²	Small Components	AL6005-T5(Anodized)
		Framed/Frameless, Any width panel	Color	Silver or Customized
		Landscape	Warranty	10-Year Warranty



■ Country of sale

USA	UK	South Africa	Spain
Italy	Poland	Australia	Lebanon

Our vision

Over the past years, BS has helped thousands of users and companies produce and consume green energy independently according to their individual needs, saving millions of tonnes of CO₂ emission. This motivates us to continually strive to create and innovate, on the universal carbon neutralization goal, and also a greener future energized by renewable energy technology.



Location: South Africa
Capacity: 5MW / 38MWh



Location: Germany
Capacity: 450kw / 464kWh



Location: Croatia
Capacity: 120kW / 200kWh