

STORAGE SOLUTION



RESIDENTIAL SOLAR POWER SOLUTION

Love earth Love us

About SYNTEK Solar

SYNTEK Solar Energy Co., Ltd 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", we believe that only on the basis of trust, respect, and gratitude can we build strong and longterm relationships with our customers.



1 HYBRID SOLAR ENERGY SYSTEM

Combining the advantages of both grid-connected and off-grid solutions, this system enables to export the extra power to the grid after the battery fully charged. It ensures energy security, backup during outages, and maximum flexibility for cost savings.

2 OFF GRID SOLAR POWER SYSTEM

Built for areas without stable grid access, this system stores solar energy in batteries to ensure continuous power supply. It provides full independence from the grid, making it ideal for remote sites or backup needs.

3 ON GRID SOLAR POWER SYSTEM

Designed to connect with the public grid, this system reduces electricity costs by supplying solar energy directly. Excess electricity is fed into the grid, improving efficiency and saving costs, but it does not provide backup power during outages.

4 OTHERS

HYBRID SOLAR SYSTEM

3.6-80kW



Solar Panel



Solar Inverter



Battery Bank



PV Mounting System



Solar Panel



LTS182-590-610W TOPCON

Higher Output Power Low Light Features
Harsh Environment

Number of Cells	144 Cells (7x18)
Dimensions of Module L*W*H(mm)	2278x1134x30mm
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



LRS182-54H495-515W

Higher Output Power Low Light Features
Harsh Environment

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%
Dimension	1722x1134x30mm
Packaging	36pcs per pallet 806pcs per 40'GP



LRS182-60HB440~460W

Higher Output Power Low Light Features
Harsh Environment

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%
Dimension	1910x1134x35mm
Packaging	31pcs per pallet 744pcs per 40'GP



Low Voltage Single Phase Hybrid Inverters

3.6-18kW

- AC couple to retrofit existing solar system.
- Max. charging/discharging current of 140A.
- 6 time periods for battery charging/discharging.
- Support storing energy from diesel generator.



High Voltage Three Phase Hybrid Inverters

15-80kW

- 100% unbalanced output, each phase; Max. output up to 50% rated power.
- AC couple to retrofit existing solar system.
- Max. charging/discharging current of 240A.
- Support storing energy from diesel generator.



Low Voltage Single Phase Hybrid Inverters

3.6-6kW

- Supports DC couple and AC couple to upgrade existing photovoltaic plants into energy storage systems.
- Slash Your Energy Bills Smart Peak Shaving and Optimal Charging Schedules.
- Support 10ms and off-grid switching time and 1.5 x@10s maximum switching power.



High Voltage Three Phase Hybrid Inverters

5-12kW

- 150% unbalanced output, each phase, Max. output up to 50% rated power.
- Slash Your Energy Bills; Smart Peak Shaving and Optimal Charging Schedules.
- Support 10ms and off-grid switching time and 2x @10s maximum switching power.



Low Voltage Battery

5-15kWh

- convenient to PLUG IN/OUT.
- 6000 cycles life.
- Precise Battery Management Technology.
- High-density LiFePO4 battery, safer to use.
- Possess industry-leading BMS technology.
- IP65 High level protection.



High Voltage Battery

48-225kWh

- High Safety Lifepo4 Battery.
- (0.5C/0.5C-80% DOD)>6000 times.
- UN38.3/MSDS/ROHS.
- Support 16 units in Series.



Low Voltage Battery

15/16kWh

- Compatible with most hybrid/battery inverter in self consumption, back-up and off-grid application.
- More than 6000 cycles, self developed BMS/Cell/Pack to ensure best quality.
- IP20 level protection.



High Voltage Battery

20-61kWh

- High Safety Lifepo4 Battery.
- (1C/1C-80% DOD)>6000 times.
- UN38.3/MSDS/ROHS.
- Support 16 units in Series.

ON GRID SOLAR SYSTEM

3-350kW



Solar Panel



Solar Inverter



PV Mounting System

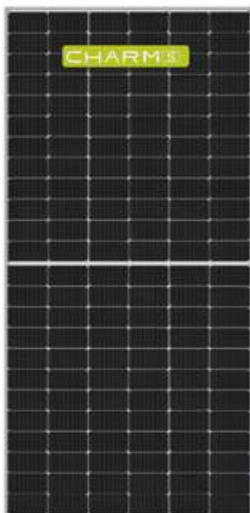


SOLAR SOLUTION

lovsun love earth love us



Solar Panel

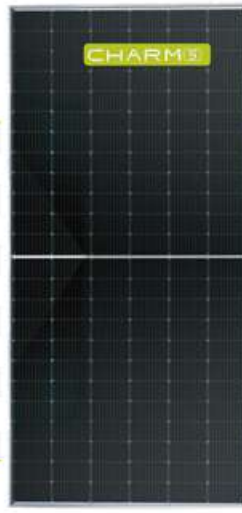


CHARM³

LRS182-72H 535~560W

Higher Output Power Low Light Features
Harsh Environment

Cell Orientation	144 (6x24)
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:	28kg±3%
Dimension	2279x1134x30mm
Packaging	36pcs per pallet 720pcs per 40'ft Container

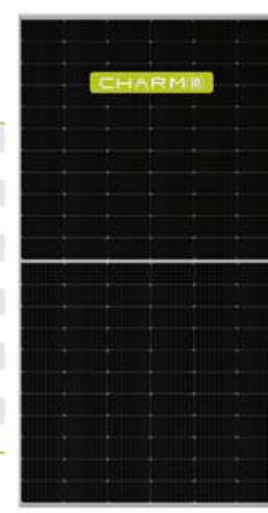


CHARM³

LRS182-72HB 575~595W

Higher Output Power Low Light Features
Harsh Environment

Cell Orientation	156 (6x26)
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:	32.1kg±3%
Dimension	2278x1134x30mm
Packaging	36pcs per pallet 720pcs per 40'ft Container



CHARM³

LRS210-66H 695~720W

Higher Output Power Low Light Features
Harsh Environment

Cell Orientation	132 (6x22)
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:	33.6kg±3%
Dimension	2384x1303x35mm
Packaging	31pcs per pallet 558pcs per 40'GP



Three Phase Inverter MOD 10KTL3-X

3-15kW

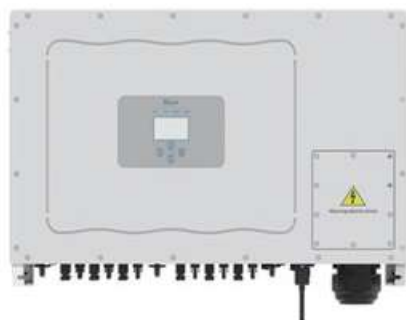
- Max. efficiency 98.6%.
- OLED and touch button.
- Type II SPD on DC and AC side.



Three Phase Inverter GT Series

100-125kW

- String level monitoring.
- Type II SPD on AC & DC sides.
- 8/10 MPPTS, max. Efficiency 99.0%.
- 21A DC input current per string.



String inverter SUN-GO1P3-EU-AM8

120-136kW

- 8 MPP trackers, Max. efficiency up to 98.8%.
- Zero export application, VSG application.
- Wide output voltage range.



Three Phase Inverter Blue Wave Series

350 kW

- Three Phase / 1500 Vdc / 350 kW.
- String On Grid Inverter.
- Max. Efficiency up to 99%.



OFF GRID SOLAR SYSTEM

3-30 kW



Solar Panel



Solar Inverter



Battery Bank



PV Mounting System



Solar Panel



LTS182-445-465W TOPCON

Higher Output Power Low Light Features
Harsh Environment

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



LRS210-66H590-610W

Higher Output Power Low Light Features
Harsh Environment

Cell Orientation	132 (6x22)
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 aluminium alloy frame
Weight	28.2kg±3%
Dimension	2382x1303x35mm
Packaging	31pcs per pallet 558pcs per 40'GP



LTB182-705-725W N-TYPE

Higher Output Power Low Light Features
Harsh Environment

Cell Type	182 N-type Mono-crystalline
No. of cells	132(6x72)
Dimensions	2384x1303x35mm
Weight	38.7 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



Low frequency Off Grid Inverter

0.8-10kW

- Pure sine wave output
- Self design PCB board and cooling system
- MPPT efficiency max 98%
- High Efficiency Design & "Power Saving Mode" to Conserve Energy.



High frequency Off Grid Inverter

4-11kW

- Lithium Battery Auto-restart Function, More Convenient for Lithium Battery Charging.
- Convenient installation And Transportation.
- Support Working without Battery: Reduce solar system Cost.



Wall mounted All-In-One ESS

3kW/5.12kWh

- LiFePO4 Battery + Inverter.
- Integrated PV and AC charging.
- High integration and easy installation.
- IP54 Waterproof.



High frequency Off Grid Inverter

1.3-12.3kW

- Two-way energy storage design.
- Support working without battery.
- Configurable working mode.



OUTDOOR ALL-IN-ONE ESS CABINET

20-50KW/112KWH

- Support high discharge power. IP54, natural cooling, wide temperature range -20°C to 55°C.
- Use environmental protection materials, the whole module nontoxic, pollution-free.



OUTDOOR ALL-IN-ONE ESS CABINET

125kW/261kWh

- Coordinated control of Photovoltaic, Energy Storage and Charging.
- Fully liquid cooling design for battery and PCS, enabling operation without derating at 50°C.

PV CABLES

- PV Cables in 4mm² and 6mm² with TUV Certificate.



DC SWITCH

- BYH-32 DC Isolator (IP66) – Safe, reliable DC isolation for solar energy systems.

MC4 CONNECTOR

- MC4 PV Connectors 1500V, with TUV Certificate.
- Rated current: 30A
- Rated voltage: 1500VDC



Tile Roof Hook Solar PV Mounting System



Tile Hook 1

Technical Parameters

System Name	MRac Tile Hook	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009,
Foundation	Tile, Flat Tile, Slate Tile, Asphalt Shingle Tile		California Building Code CBC 2010
Tilt Angle	5-45°	Hook Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304&Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10 Years

L Feet and Hanger Bolt Kit Metal Roof PV Mounting System



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		International Building Code IBC 2009,
Foundation	Trapezoidal Roof		California Building Code CBC 2010
Tilt Angle	0°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

Aluminum Ground Mounting System



YL-AG3-NB, N-Type Pre-assembled Beam



YL-AG3-WB, W-Type Pre-assembled Beam



YL-GS-F76x1000, Ground Screw



YL-R01, Ground Rail



YL-R01-S, Rail Splice



YL-BR-05, Rail Clamp



YL-MC-40, Mid Clamp



YL-EC-40, End Clamp

Technical Parameters

System Name	Ground	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Open Field		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/m²	Small Components	AL6005-T5
Applicable Solar Module	Framed	Color	Natural Silver or Customized
Panel Layout	Horizontal	Warranty	10-Year Warranty

Balcony Solar Mounting System

N Shape
Pre-assembled SupportsW Shape
Pre-assembled Supports

Multiple Support I



Multiple Support II

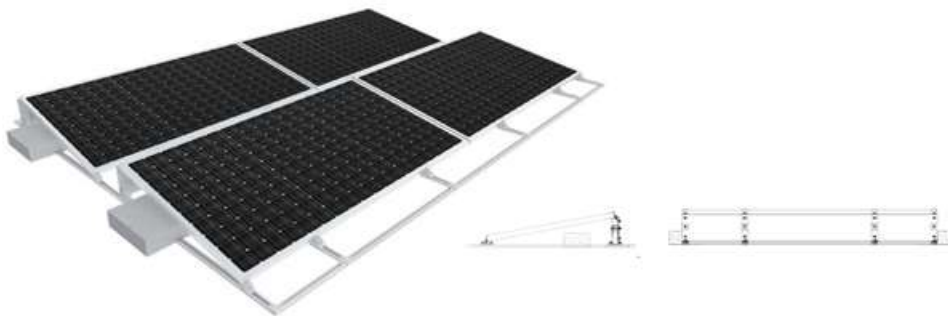


Multiple Support III

Technical Parameters

Installation Site	Ground	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Foundation	Concrete Base or Ground Screw		International Building Code IBC 2009,
Tilt Angle	0-60°		California Building Code CBC 2010
Wind Load	≤60m/s	Material	AL6005-T5(Anodized)
Snow Load	≤1.6KN/m²	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Ground Clearance	≤500-2000mm	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

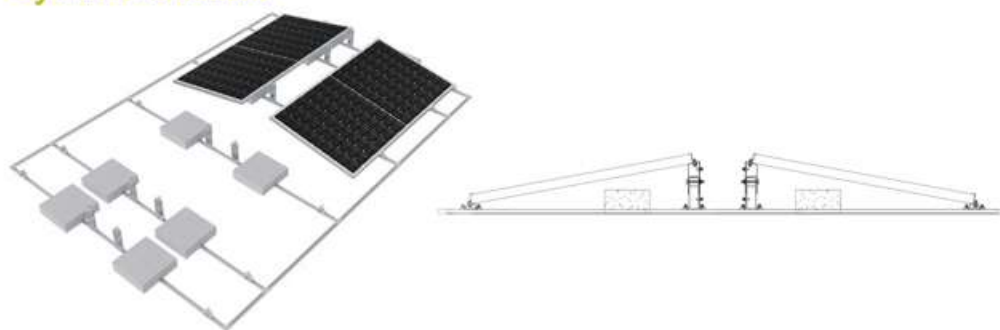
Roof Solar PV Mounting System RM-Ad



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	Flat Concrete roof, Flat ground, Membrane roof		International Building Code IBC 2009,
Roof Type	Concrete Ballast		California Building Code CBC 2010
Tilt Angle	0-30°	Material	Q235B(Hot-Dip Galvanized) AL6005-T5(Anodized)
Wind Load	≤44m/s	Fastener	SUS304, Hot Dip Galvanized, Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed/Frameless, Any width panel	Color	Silver or Customized
Panel Layout	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	Flat Concrete roof, Flat ground, Membrane roof		International Building Code IBC 2009,
Roof Type	Concrete Ballast		California Building Code CBC 2010
Tilt Angle	0-30°	Material	Q235B(Hot-Dip Galvanized) AL6005-T5(Anodized)
Wind Load	≤44m/s	Fastener	SUS304, Hot Dip Galvanized, Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed/Frameless, Any width panel	Color	Silver or Customized



USA	UK	South Africa	Spain
Italy	Poland	Australia	Lebanon
			

Our vision

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

High reliability and
long life cycle

