

A Grade Photovoltaic (PV) Module Manufacturer
Highly Professional and Technical Installation Service Provider

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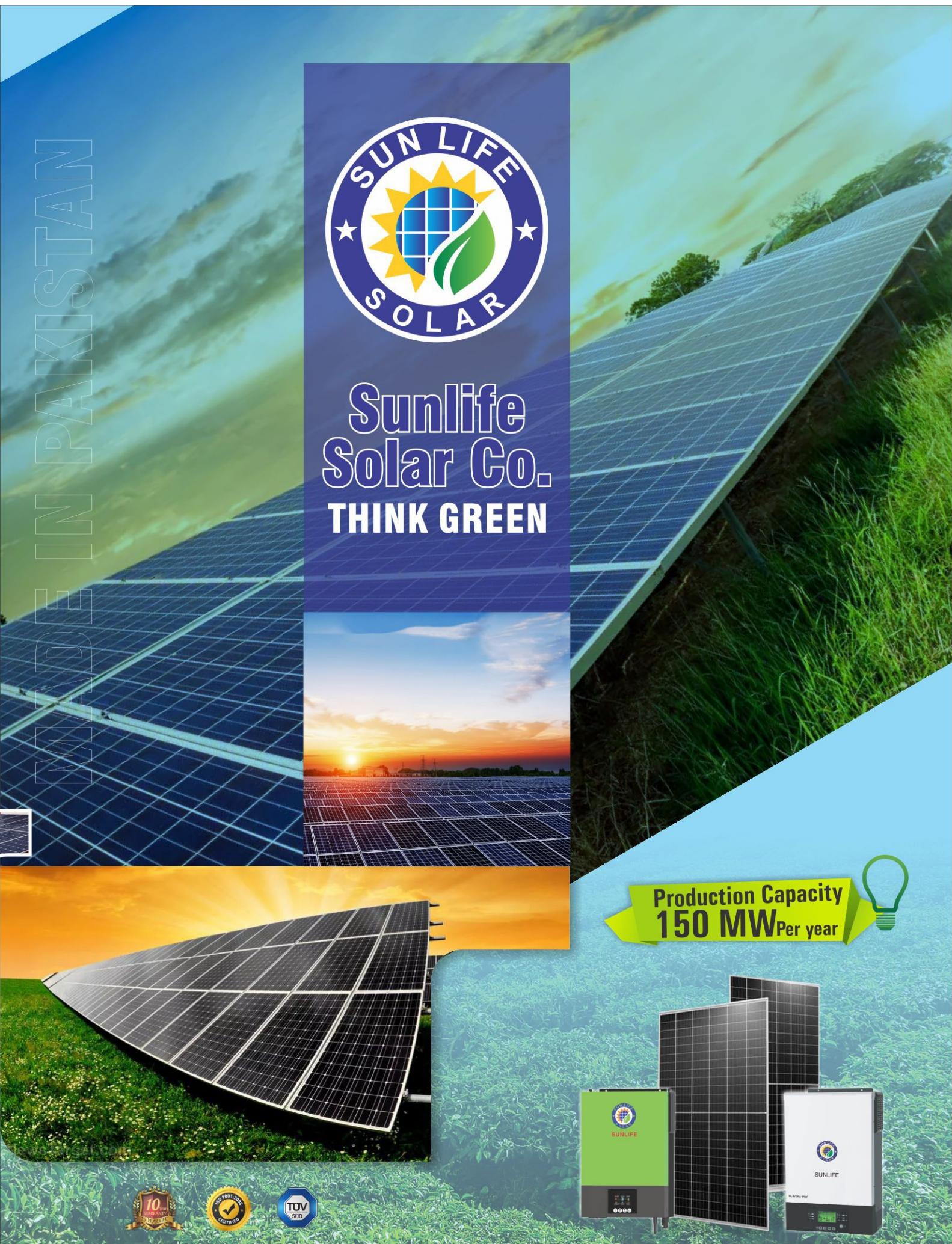
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Sunlife Solar Co. (Pvt.) Ltd.



Who we are?

Amongst the few companies in Pakistan manufacturing A-Class photovoltaic (PV) Modules and We are one of the largest manufacturer having factory covered about 174240 square feet. Our PV modules are manufactured on state of the art international standard plant having a capacity of 150MW per annum. Mono-crystalline & Poly-crystalline PV modules are produced in different sizes ranging from 50Watts to 350 Watts. Quality Assurance is our motto and the product at each stage of production goes through detailed quality inspections and checked on state-of-the-art Electro-Luminance (EL) testing machine five-sets automatic soldering machine. Our PV modules are tested, as required basis, on IEC 61215 (10.1) and Certified as Top Class by PCRET, Ministry of S & T, and Government of Pakistan.

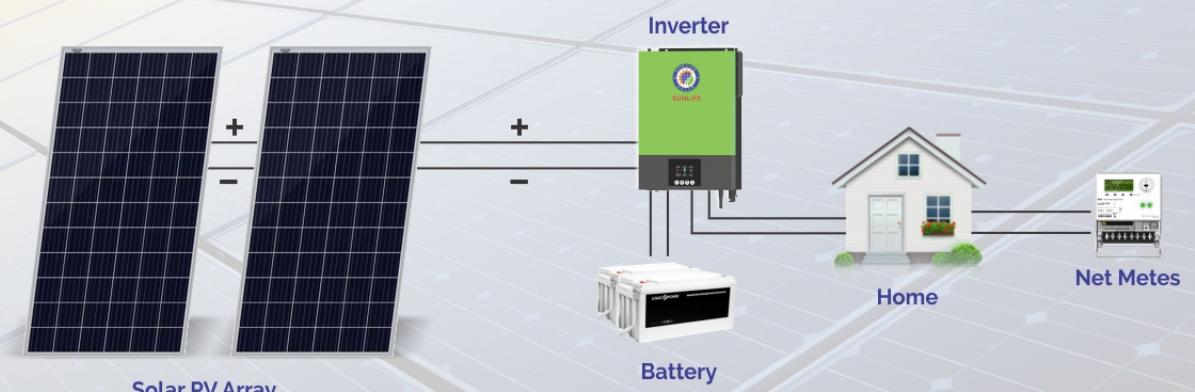
Sunlife Solar Company (Pvt.) Ltd is a proud importer of the world's top quality inverters in Pakistan which are specially manufactured to meet the needs of the countries in the sub-continent. We are also facilitating Pakistan's solar industry as an indenting company to import solar modules as the leading Tier 1 Company in the region.

What are Mono Solar Panels?

Solar cells made of mono crystalline silicon (mono-Si), also called single-crystalline silicon (single-crystal-Si). Mono crystalline solar cells are made out of silicon ingots, which are cylindrical in shape. To optimize performance and lower costs of a single mono crystalline solar cell, four sides are cut out of the cylindrical ingots to make silicon wafers, which is what gives mono crystalline solar panels their characteristic look.

Mono crystalline solar panels have the highest efficiency rates since they are made out of the highest-grade silicon. The efficiency rates of mono crystalline solar panels are typically 15-23% . We assure you 100% guarantee on our all product of solar panels in Pakistan.

PROCEDURE



VISION

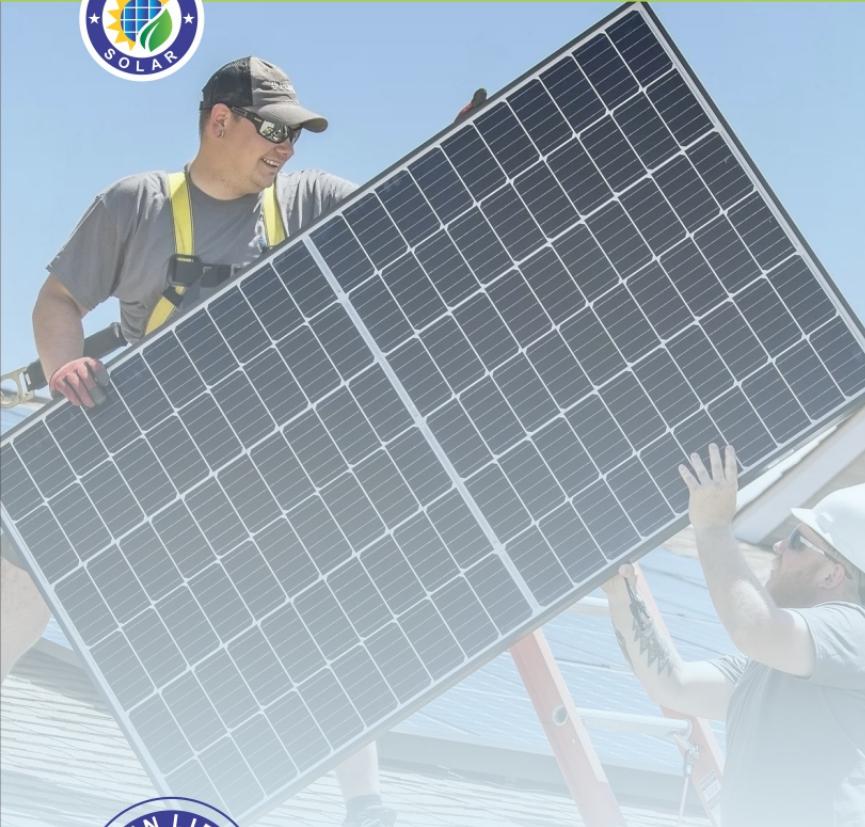
"Our vision is Energy Self-reliant Pakistan, focusing on self-production, energy reliability and assuring a promising future for the coming generations."

MISSION

Sunlife Solar is passionate about contributing our part in Energy Secure Pakistan. Our aim is to accelerate the adoption of Solar technology across the country and provide an environment friendly, sustainable and conflict free Energy and to help in eradicating the menace of load shedding and thereby, fueling the development in our motherland.

What are Poly Solar Panels?

The first solar panels based on polycrystalline silicon, which also is known as poly silicon (p-Si) and multi crystalline silicon (mc-Si), were introduced to the market in 1981+Unlike mono crystalline-based solar panels, polycrystalline solar panels do not require the Czochralski process. The amount of waste silicon is less compared to mono crystalline. Poly crystalline solar panels tend to have slightly lower heat tolerance than mono crystalline solar panels. This technically means that they perform slightly worse than mono crystalline solar panels in high temperatures. Heat can affect the performance of solar panels and shorten their lifespans. However, this effect is minor, and most homeowners do not need to take it into account. The efficiency of polycrystalline-based solar panels is typically 15-20%



A-PLUS SLS160/220M

Solar Module 36 Cell Series

Introduction

Sunlife Solar is Pakistan's largest solar module manufacturer with 150MW capacity per year, Internationally certified, quality of TUV and ISO 9001 and obtained considering the requirements of industry and for customer satisfaction on our Pakistan made Solar Panel.

KEY FEATURES

05 Year

Material & workmanship replacement Warranty.

Replacement

All Pakistan replacement in Warranty product.

25 Years

Linear power output warranty Withstand mechanical loading of 2400 pa, uniform spread, corresponding to wind pressure of 130 km/h.

Quality Warranty

As defined by IEC 61215 and IEC 61730 the defects will not appear in material and workmanship under normal conditions of installation, use and maintenance for 05 years from the warranty start date.

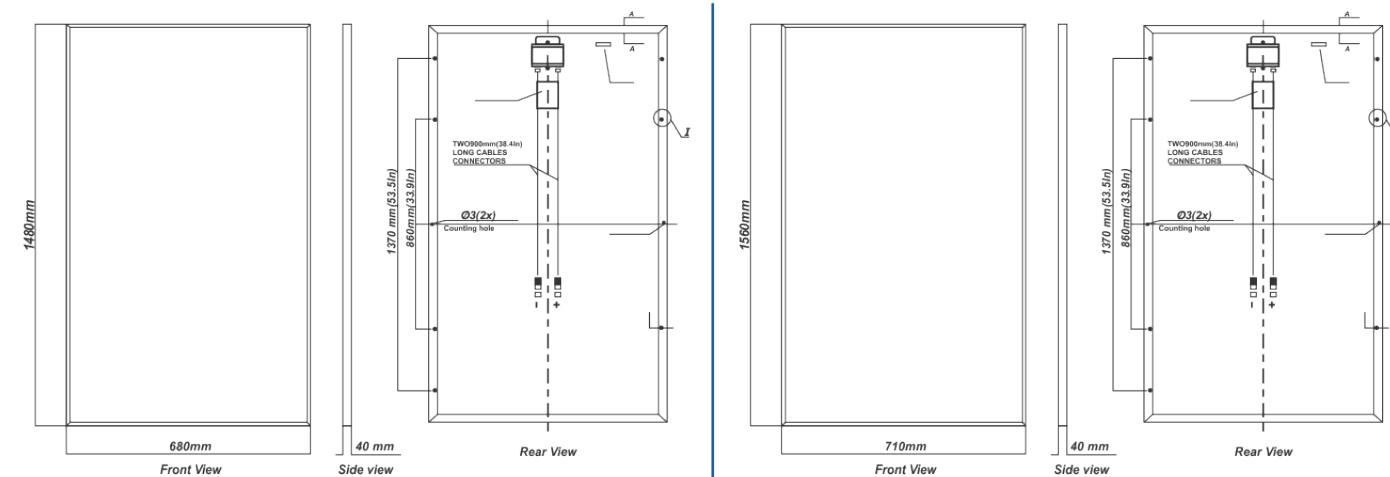
Superior Warranty

- First year annual degradation will be no less than 97%
- 2nd to 24 years maximum decline will be no more than 0.7% each year. By the end of 25th year the nominal output be less than 80% of the labeled power.



Solar Module 36 Cell Series

MECHANICAL DIAGRAMS



ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0.+3%)

Maximum Power (Pmax. W)	160 W	Maximum Power (Pmax. W)	220 W
Operating Voltage (Vmpp/V)	19.19 V	Operating Voltage (Vmpp/V)	20.20 V
Operating Current (Impp/A)	8.58 A	Operating Current (Impp/A)	10.9 A
Open-Circuit Voltage (Voc/V)	23.73 V	Open-Circuit Voltage (Voc/V)	23.09 V
Short-Circuit Current (Isc/A)	8.91 A	Short-Circuit Current (Isc/A)	11.90 A
Fill Factor	80.86	Fill Factor	80.86

MECHANICAL SPECIFICATION

Cell Type	Mono & Poly Crystalline	Cell Type	Mono Perc
Cell Dimension	156 x 156mm	Cell Dimension	166 x 166mm
Cell Arrangement	36 (4*9)	Cell Arrangement	36 (4*9)
Module Dimensions	-	Module Dimensions	-
Cable Length	0.5 m	Cable Length	0.5 m
Cable Cross Section Size	5 mm	Cable Cross Section Size	5 mm
Glass Dimension	1475*675*3.2mm	Glass Dimension	1555*705*3.2mm
No. of Bypass Diodes	3	No. of Bypass Diodes	3
Frame	-	Frame	-

OPERATING CONDITIONS

Maximum System Voltage	100VDC (IEC)
Operating Temp	-40 - 85°C
Maximum Series Fuse	15A
Static Loading	5400pa
Conductivity at Ground	≤0.1Ω
Safety Class	Class C
Resistance	≥100MΩ
Connector	MC4

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.47%/K
Temperature Coefficient Voc	-0.29%/K
Temperature Coefficient Isc	0.029%/K
NOCT	44±2°C



A-PLUS SLS325M

Solar Module 72 Cell Series

Introduction

Sunlife Solar is Pakistan's largest solar module manufacturer with 150MW capacity per year, Internationally certified, quality of TUV and ISO 9001 and obtained considering the requirements of industry and for customer satisfaction on our Pakistan made Solar Panel.

KEY FEATURES

05 Year

Material & workmanship replacement Warranty.

Replacement

All Pakistan replacement in Warranty product.

25 Years

Linear power output warranty Withstand mechanical loading of 2400 pa, uniform spread, corresponding to wind pressure of 130 km/h.

Quality Warranty

As defined by IEC 61215 and IEC 61730 the defects will not appear in material and workmanship under normal conditions of installation, use and maintenance for 05 years from the warranty start date.

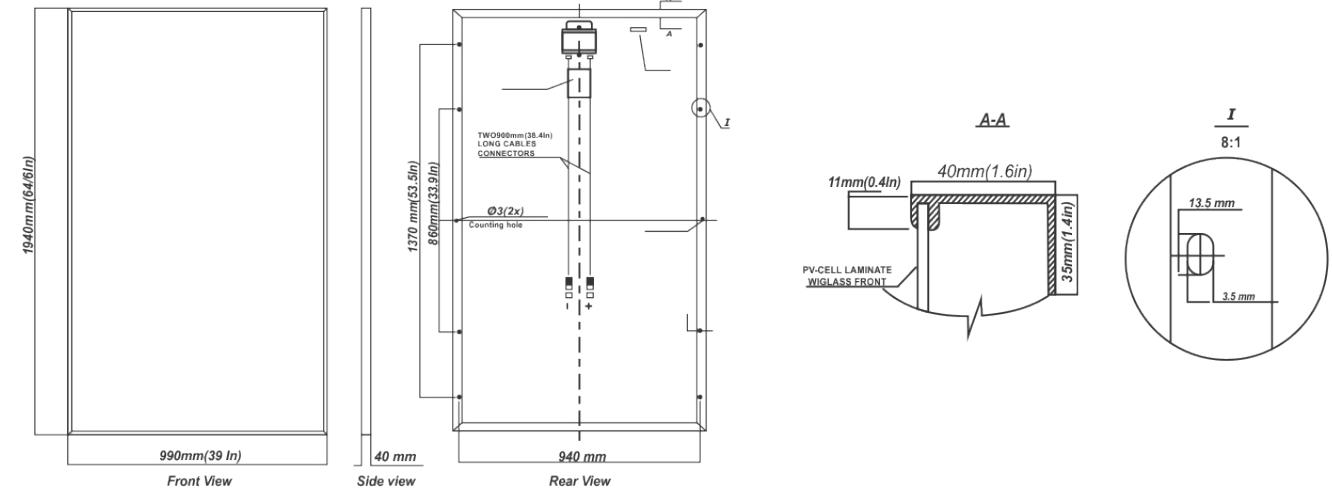
Superior Warranty

- First year annual degradation will be no less than 97%
- 2nd to 24 years maximum decline will be no more than 0.7% each year. By the end of 25th year the nominal output be less than 80% of the labeled power.



Solar Module 72 Cell Series

MECHANICAL DIAGRAMS



ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0.+3%)

Maximum Power (Pmax. W)	325 W
Operating Voltage (Vmpp/V)	37.45 V
Operating Current (Impp/A)	8.45 A
Open-Circuit Voltage (Voc/V)	46.24 V
Short-Circuit Current (Isc/A)	8.91 A
Fill Factor	78.11

MECHANICAL SPECIFICATION

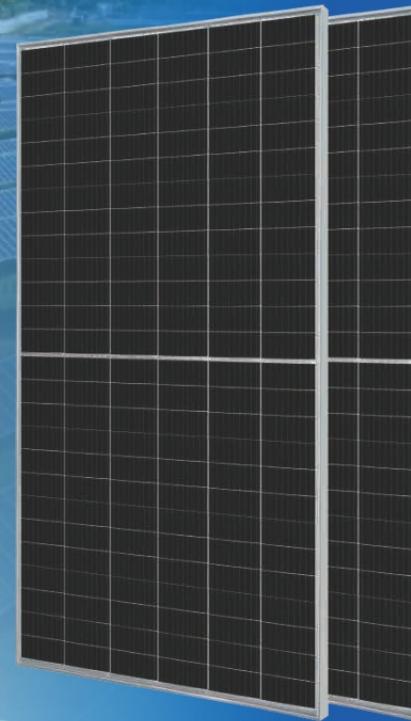
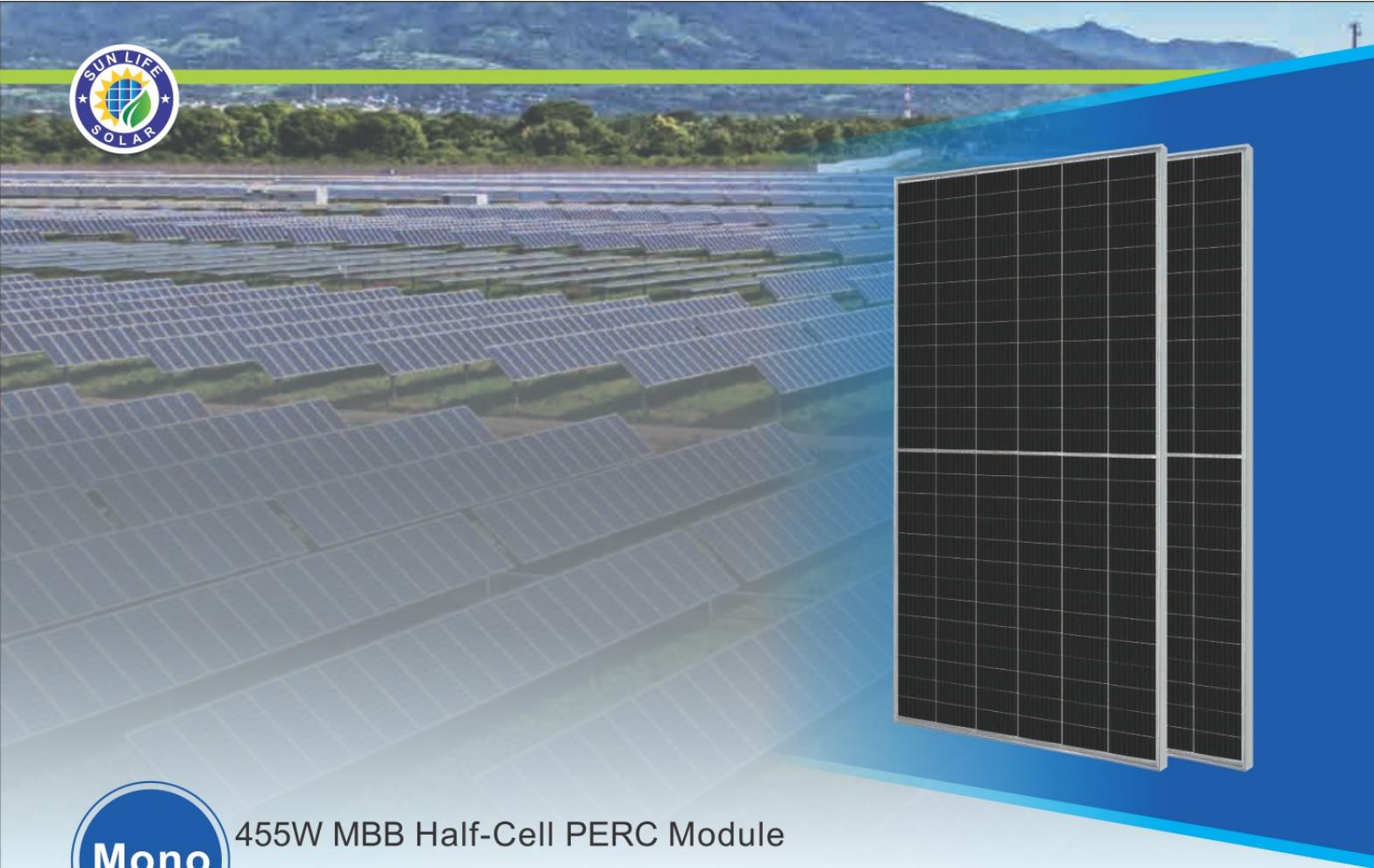
Cell Type	Poly & Mono Crystalline
Cell Dimension	156 x 156mm
Cell Arrangement	72 (6*12)
Module Dimensions	-
Cable Length	0.5 m
Cable Cross Section Size	5 mm
Glass Dimension	1973*994*3.2mm
No. of Bypass Diodes	3
Frame	-

OPERATING CONDITIONS

Maximum System Voltage	100VDC (IEC)
Operating Temp	-40 - 85°C
Maximum Series Fuse	15A
Static Loading	5400pa
Conductivity at Ground	≤0.1Ω
Safety Class	Class C
Resistance	≥100MΩ
Connector	MC4

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.47%/K
Temperature Coefficient Voc	-0.29%/K
Temperature Coefficient Isc	0.042%/K
NOCT	44±2°C

**Mono**

455W MBB Half-Cell PERC Module SL78S10 435-455/MR Series

Introduction

Assembled with high-efficiency Multi-busbar PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower temperature coefficient



Less shading effect



Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty



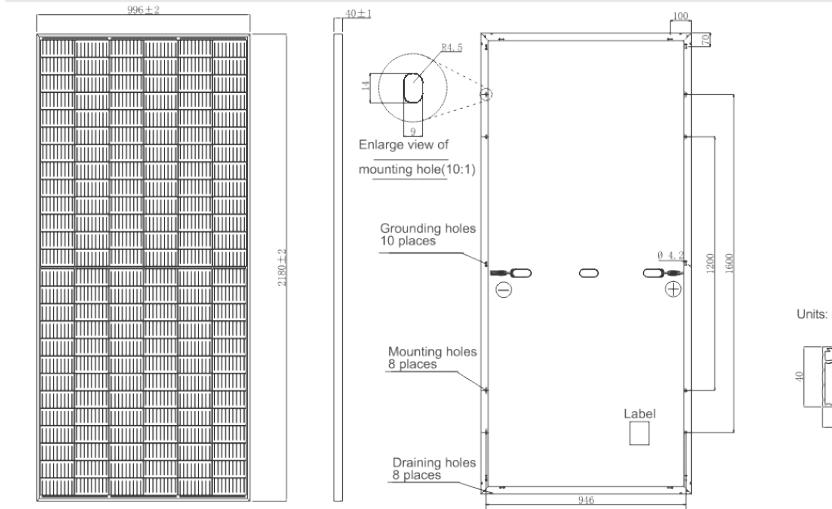
Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design



SL78S10 435-455/MR Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	24.6kg±3%
Dimensions	2180±2mm×996±2mm×40±1mm
Cable Cross Section Size	4mm ²
No. of cells	156(6×26)
Junction Box	IP68, 3 diodes
Connector	QC 4.10(1000V) QC 4.10-35(1500V)
Cable Length (Including Connector)	Portrait:300mm(+)/400mm(-); Landscape:1200mm(+)/1200mm(-)
Packaging Configuration	27 Per Pallet

ELECTRICAL PARAMETERS AT STC

TYPE	SL78S10 -435/MR	SL78S10 -440/MR	SL78S10 -445/MR	SL78S10 -450/MR	SL78S10 -455/MR
Rated Maximum Power(Pmax) [W]	435	440	445	450	455
Open Circuit Voltage(Voc) [V]	52.73	53.00	53.31	53.58	53.87
Maximum Power Voltage(Vmp) [V]	44.50	44.87	45.18	45.51	45.83
Short Circuit Current(Isc) [A]	10.40	10.44	10.48	10.52	10.56
Maximum Power Current(Imp) [A]	9.78	9.81	9.85	9.89	9.93
Module Efficiency [%]	20.0	20.3	20.5	20.7	21.0
Power Tolerance	0~+5W				
Temperature Coefficient of Isc(α_{Isc})	+0.044%/°C				
Temperature Coefficient of Voc(β_{Voc})	-0.272%/°C				
Temperature Coefficient of Pmax(γ_{Pmp})	-0.350%/°C				
STC					Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G

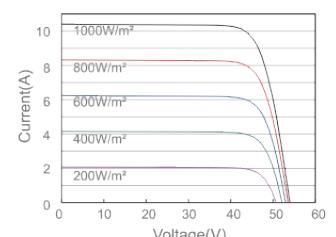
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL PARAMETERS AT NOCT

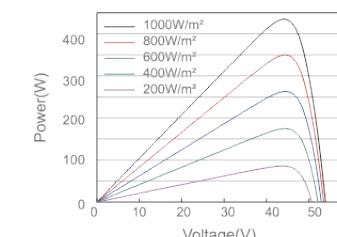
TYPE	SL78S10 -435/MR	SL78S10 -440/MR	SL78S10 -445/MR	SL78S10 -450/MR	SL78S10 -455/MR	Operating Conditions
Rated Max Power(Pmax) [W]	330	334	338	342	346	Maximum System Voltage 1000V/1500V DC(IEC)
Open Circuit Voltage(Voc) [V]	50.45	50.66	50.86	51.11	51.38	Operating Temperature -40°C~+85°C
Max Power Voltage(Vmp) [V]	41.03	41.28	41.57	41.86	42.14	Maximum Series Fuse 20A
Short Circuit Current(Isc) [A]	8.43	8.48	8.53	8.57	8.61	Maximum Static Load,Front 5400Pa
Max Power Current(Imp) [A]	8.04	8.09	8.13	8.17	8.21	Maximum Static Load,Back 2400Pa
NOCT						NOCT 45±2°C
						Safety Class Glass II
						Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G

CHARACTERISTICS

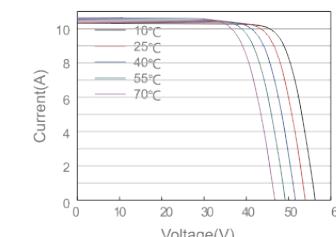
Current-Voltage Curve SL78S10-435/MR

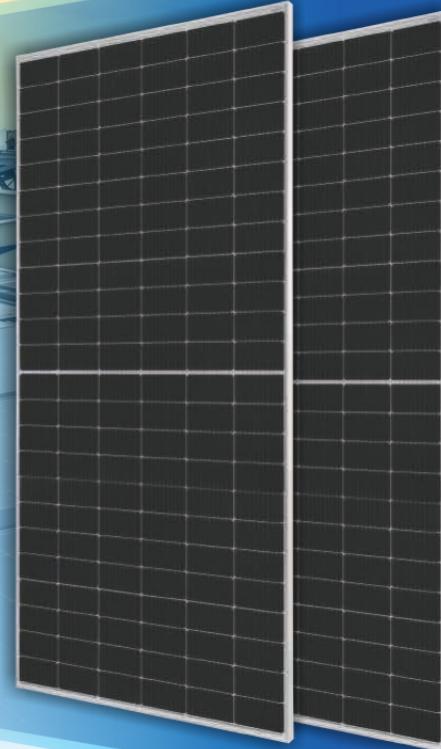


Power-Voltage Curve SL78S10-435/MR



Current-Voltage Curve SL78S10-435/MR





550W MBB Half-cell Module

SL72S30 525-550/MR/1500V Series

Introduction

Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower LCOE



Less shading and lower resistive loss

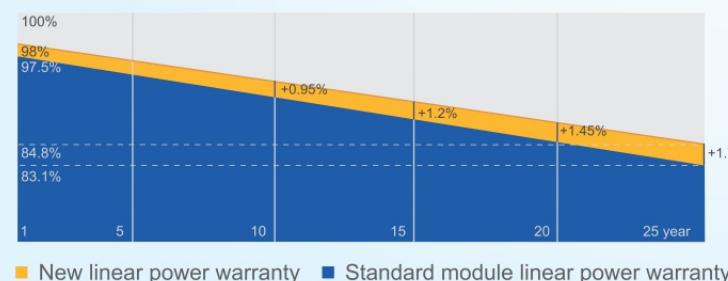


Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty

0.55% Annual Degradation Over 25 years



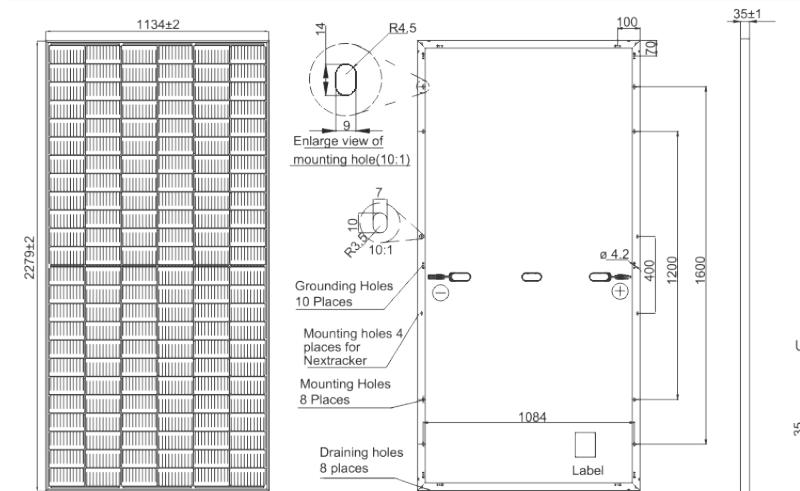
Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: Quality management systems



SL72S30 525-550/MR/1500V Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	28.6kg±3%
Dimensions	2279±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	Genuine MC4-EVO2 QC 4.10-35/45
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1300mm(+)/1300mm(-)
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	SL72S30 -525/MR/1500V	SL72S30 -530/MR/1500V	SL72S30 -535/MR/1500V	SL72S30 -540/MR/1500V	SL72S30 -545/MR/1500V	SL72S30 -550/MR/1500V
Rated Maximum Power(Pmax) [W]	525	530	535	540	545	550
Open Circuit Voltage(Voc) [V]	49.15	49.30	49.45	49.60	49.75	49.90
Maximum Power Voltage(Vmp) [V]	41.15	41.31	41.47	41.64	41.80	41.96
Short Circuit Current(Isc) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(Imp) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.3	20.5	20.7	20.9	21.1	21.3
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α_{Isc})		+0.045%°C				
Temperature Coefficient of Voc(β_{Voc})		-0.275%°C				
Temperature Coefficient of Pmax(γ_{Pmp})		-0.350%°C				
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

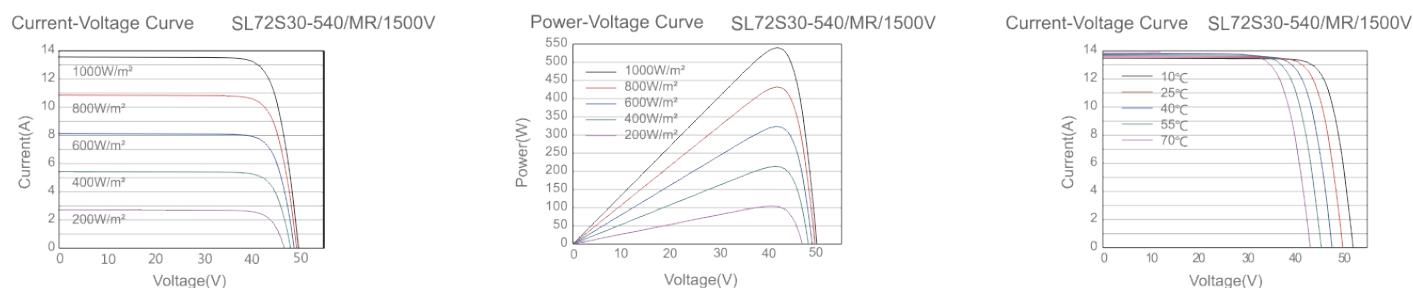
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.
Measurement tolerance at STC: Pmax ±3 %, Voc ±3% and Isc ±4%.

ELECTRICAL PARAMETERS AT NOCT

TYPE	SL72S30-525 /MR/1500V	SL72S30-530 /MR/1500V	SL72S30-535 /MR/1500V	SL72S30-540 /MR/1500V	SL72S30-545 /MR/1500V	SL72S30-550 /MR/1500V
Rated Max Power(Pmax) [W]	397	401	405	408	412	416
Open Circuit Voltage(Voc) [V]	46.05	46.18	46.31	46.43	46.55	46.68
Max Power Voltage(Vmp) [V]	38.36	38.57	38.78	38.99	39.20	39.43
Short Circuit Current(Isc) [A]	10.97	11.01	11.05	11.09	11.13	11.17
Max Power Current(Imp) [A]	10.35	10.39	10.43	10.47	10.51	10.55
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					
Operating Conditions	Maximum System Voltage 1500V DC (IEC)					
Operating Temperature	-40°C ~+85°C					
Maximum Series Fuse Rating	25A					
Maximum Static Load Front*	3600Pa, 1.5					
Maximum Static Load Back*	1600Pa, 1.5					
Safety Class	Class II					
Fire Performance	UL Type 1					

*For NexTracker installations, Maximum Static Load, Front is 2000Pa while Maximum Static Load, Back is 2000Pa.

CHARACTERISTICS



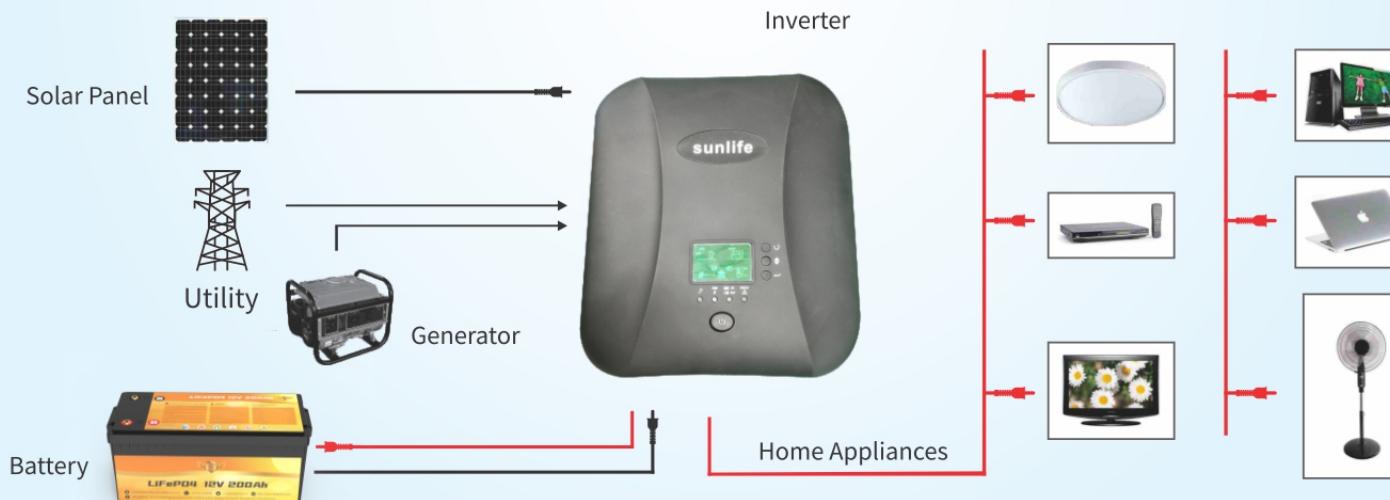


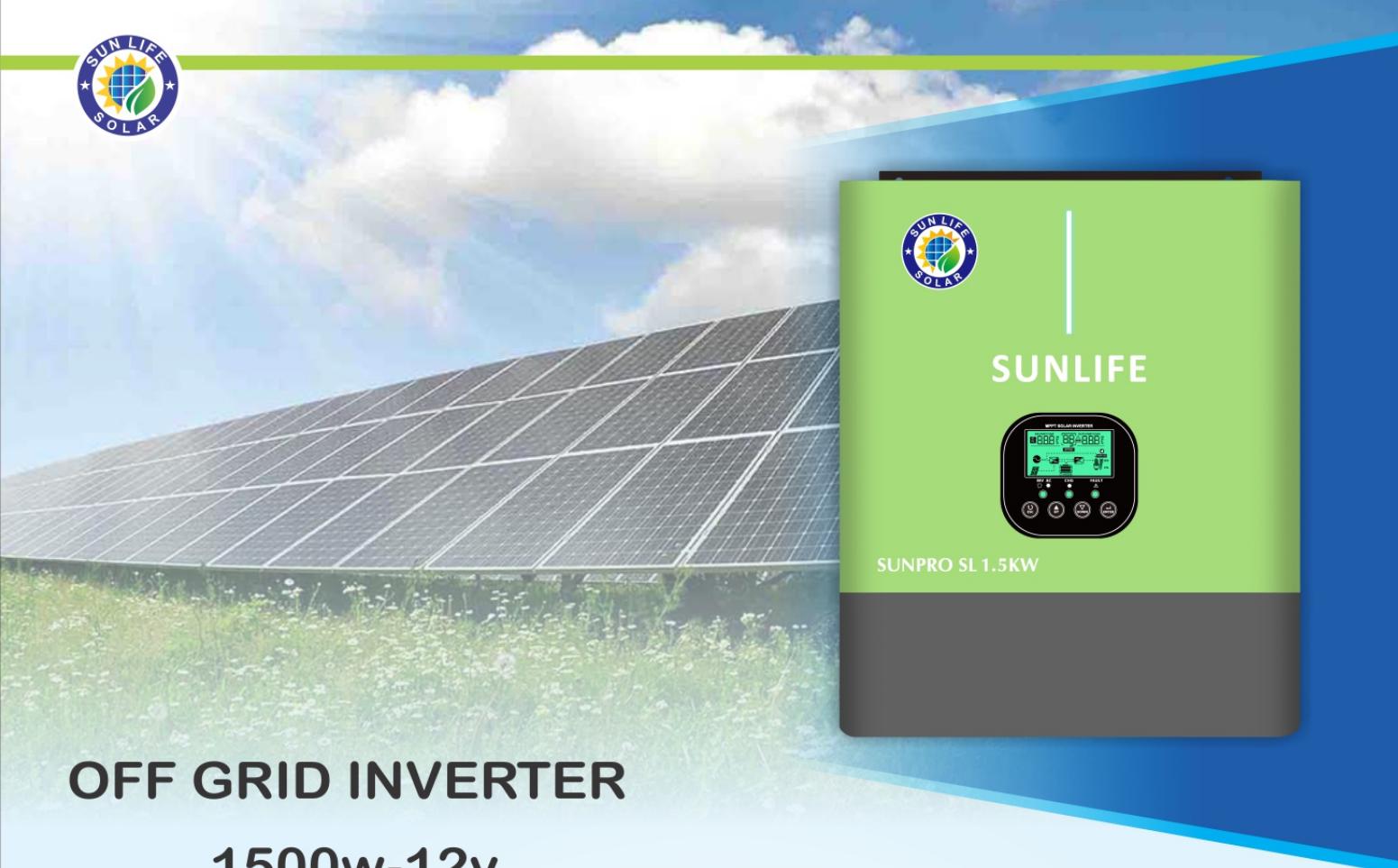
H3 1K-2K MODIFIED SINE WAVE OFF GRID PWM INVERTER

MAIN FEATURES

- Solar charge controller and AC charger built inside, solar/battery/grid power complementary.
- User can select the work mode as solar priority or solar/AC together
- Support wide AC input range(90-280Vac)
- Solar charger/AC charger/Inverter/ AVR/UPS 5 functions into 1
- Application: Fan, light, TV and office Appliances

Solar System Connection



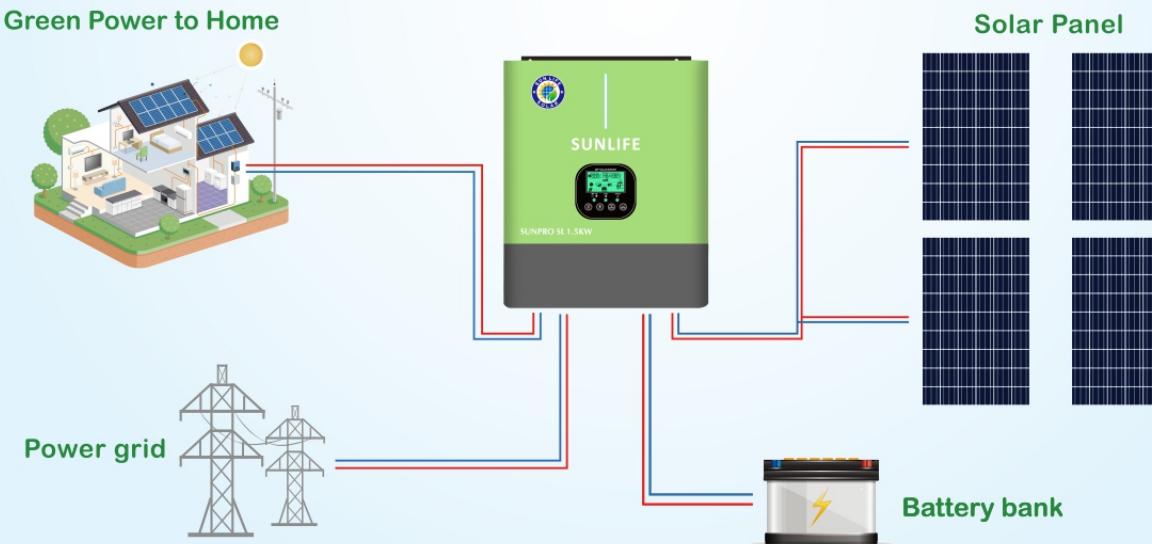


OFF GRID INVERTER

1500w-12v

PRODUCT FEATURES

- Pure sine wave inverter.
- Selectable input voltage range for home appliances and personal computers.
- Configurable AC/Solar input priority via LCD setting.
- Cold start function.
- Overload/ Over temperature/short circuit protection.
- Compatible to AC mains or generator power.
- Built-in MPPT solar controller.
- Auto restart while AC is recovering.
- Status indication with RGB lights.



DATASHEET	SUNPRO SL 1.5KW
RATED POWER	1500W
INPUT	
Voltage	230 VAC
Frequency Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances) 50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	3000VA
Efficiency (Peak) PV to INV	97%
Efficiency (Peak) Battery to INV	94%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY & AC CHARGER	
Battery Voltage	12 VDC
Floating Charge Voltage	13.5 VDC
Overcharge Protection	16 VDC
Maximum Charge Current	80 A
SOLAR CHARGER	
Maximum PV Array Power	2000W
MPPT Range @ Operating Voltage	60 ~ 430 VDC
Maximum PV Array Open Circuit Voltage	450 VDC
Maximum Charging Current	80 A
Maximum Efficiency	98%
PHYSICAL	
Dimension, D x W x H (mm)	128*300*363
Net Weight (kgs)	6.1
Communication interface	USB/RS232
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C - 55°C
Storage Temperature	-15°C - 60°C

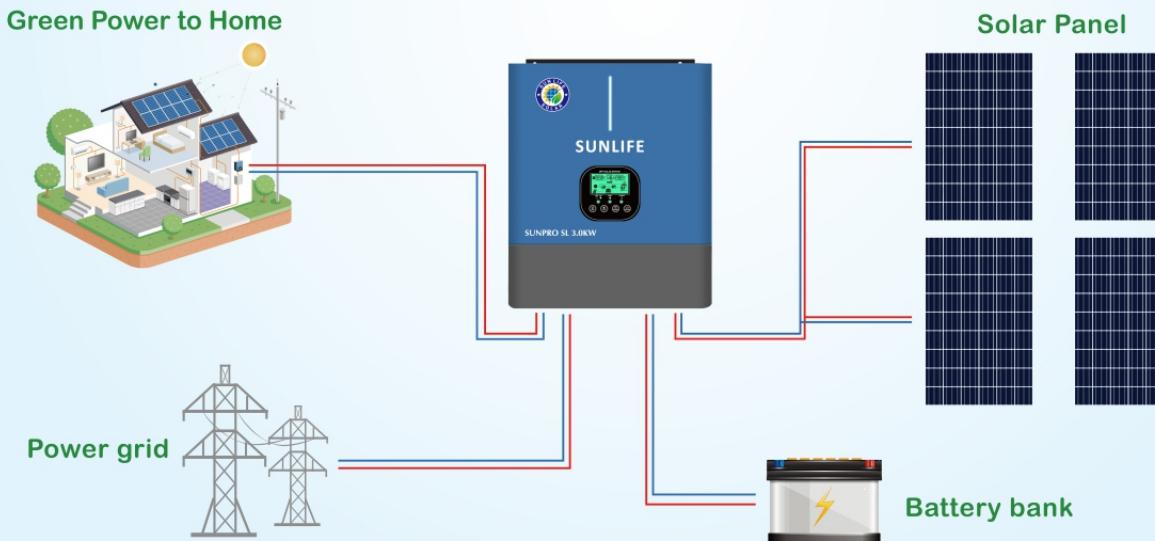


OFF GRID INVERTER

3000w-24v

PRODUCT FEATURES

- Pure sine wave inverter.
- Selectable input voltage range for home appliances and personal computers.
- Compatible to AC mains or generator power.
- Built-in MPPT solar controller.
- Configurable AC/Solar input priority via LCD setting.
- Auto restart while AC is recovering.
- Cold start function.
- Overload/ Over temperature/short circuit protection.
- Status indication with RGB lights.



DATASHEET		SUNPRO SL 3.0KW
RATED POWER	3000W	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	6000VA	
Efficiency (Peak) PV to INV	97%	
Efficiency (Peak) Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Output Port	single output	
Waveform	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	24 VDC	
Floating Charge Voltage	27 VDC	
Overcharge Protection	33 VDC	
Maximum Charge Current	80 A	
Works without Battery	YES	
SOLAR CHARGER		
Maximum PV Array Power	4000W	
MPPT Range @ Operating Voltage	60 ~ 430 VDC	
Maximum PV Array Open Circuit Voltage	450 VDC	
Maximum Charging Current	80 A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	128*300*363	
Net Weight (kgs)	6.2	
Communication interface	USB/RS232	
LCD display	General LCD	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	



ON/OFF GRID SOLAR INVERTER

SL IV PLUS SERIES



Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120A(for 3.6KW/6.2KW)/140A(for 4.2KW)
MPPT Solar charge: max5500w(for 3.6kw/4.2kw),
max 7200w (for 6.2kw)
- High PV input voltage range(90~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life



MODEL	SL IV PLUS 3.6KW	SL IV PLUS 4.2KW	SL IV PLUS 6.2KW
Phase	1-phase		
Maximum PV Input Power	5500W	5500W	7200W
Rated Output Power	3600W	4200W	6200W
Maximum Solar Charging Current	120A	140A	120A
GRID-TIE OPERATION			
PV Input(DC)			
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	90~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
GRID OUTPUT(AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		
Nominal Output Current	15.7A	18.2A	27.0A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
EFFICIENCY			
Maximum Conversion Efficiency(Solar to AC)	98 %		
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	30A	30A	40A
Nominal operating frequency	50/60Hz		
Surge power	7200W	8400W	12400 W
BATTERY MODE OUTPUT(AC)			
Nominal Output Voltage	24VDC	24VDC	48VDC
Output Waveform	Pure sine wave		
Efficiency(DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	24VDC	24VDC	48VDC
Maximum Charging Current (Solar to AC)	120A	140A	120A
Maximum AC Charging Current	100A		
GENERAL			
PHYSICAL			
Dimension,D X W X H(mm)	420*310*110		
Cartoon Dimension,D X W X H(mm)	590*390*208		
Net Weight(kgs)	8.8	9.3	9.8
Gross Weight(kgs)	10	11	11
INTERFACE	RS232/WIFI/GPRS		



SL-IV Sky 6kW

- Maximum PV input current 27A
- Dual outputs for smart load management
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Detachable LCD panel
- Built-in WiFi for mobile monitoring (APP is available)
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel operation up to 9 units

MODEL	SL-IV Sky 6kW
PHASE	1-phase in / 1-phase out
MAXIMUM PV INPUT POWER	7000W
RATED OUTPUT POWER	6000W
MAXIMUM CHARGING POWER	6000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120 A
Maximum AC Charging Current	120 A
Maximum Charging Current	120 A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	12
INTERFACE	
Parallel Function	Yes, 9 units
Communication Port	USB, RS-232, Dry Contact and WiFi
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10°C to 50°C



Voltronic Power
Advancing Power



SL-SKY 8KW / SL-SKY 11KW

Dual outputs, for smart load management

Maximum PV input current increases to 27A

Wide PV input voltage range 90VDC ~ 450VDC

Status indication with RGB lights

Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)

Supports USB On-the-Go function

Reserved communication port for BMS (RS485, CAN-BUS or RS232)

Replaceable fan design for ease of maintenance

Battery independent design

Selectable high power charging current

Compatible to Utility Mains or generator input

Built-in anti-dust kit

Optional DC output for DC fan, LED bulb, router and so on (only for 8K model)

Parallel operation with 6 units



MODEL	SL-SKY 8KW	SL-SKY 11KW
RATED POWER	8000VA/8000W	11000VA/11000W
PARALLEL CAPABILITY	YES, 6 units	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	230VAC ± 5%
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
Optional DC Voltage	12 VDC ± 5%, 100W	N/A
BATTERY		
Battery Voltage	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC
Overcharge Protection	66 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	8000W (4000W x 2)	11000W (5500W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Input Current	27A x 2(MAX 40A)	
Maximum Solar Charge Current	120A	150A
Maximum AC Charge Current	120A	150A
Maximum Charge Current	120A	150A
PHYSICAL		
Dimension, D x W x H (mm)	147.4 x 432.5 x 553.6	
Net Weight (kgs)	18.4	
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
STANDARD		
Compliance Safety	CE	CE



Power the World with Sunlight

Three Phase Grid-connected PV Inverter

SI-4K-T2/SI-5K-T2/SI-6K-T2/SI-8K-T2/SI-10K-T2/SI-12K-T2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.



Safe

IP 65 protection for indoor and outdoor installation. AC and DC surge protection guarantee system safety.



Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.



Reliable

Key components are from first rank brand supplier worldwide. R&D team are experienced experts in string inverter circle, proven technology create reliable quality.



Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.



Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.



Power the World with Sunlight

Technical Data	SI-4K-T2	SI-5K-T2	SI-6K-T2	SI-8K-T2	SI-10K-T2	SI-12K-T2
Input Data						
Max. DC input power	5200W	6500W	7800W	10400W	13000W	15600W
Max. DC input voltage				1100V		
Operation voltage range				200V-1000V		
Number of independent MPPT / strings per MPPT				2/1		
MPPT max. current				14A/14A		
Max. Short Circuit Current per MPPT				18A/18A		
AC Output Data						
Rated output power	4000W	5000W	6000W	8000W	10000W	12000W
Max. output power	4400W	5500W	6600W	8800W	11000W	13200W
Rated output voltage				380V,400V/±20%		
Rated output frequency				50Hz,60Hz/±5Hz		
Rated output current	5.7A	7.2A	8.7A	11.6A	14.5A	17.5A
Max. output current	6.5A	8A	10A	13A	16A	19A
Power factor				-0.8~+0.8(adjustable)		
THDi				<3%(Nominal Output)		
Grid system pattern				3W+N+PE		
Efficiency						
Max. efficiency				98.2%		
Europe efficiency				98%		
Protection						
Input DC switch				Yes		
Input over current protection				Yes		
DC reverse polarity protection				Yes		
Output over voltage protection				Yes		
Output over current protection				Yes		
Anti islanding protection				Yes		
AC surge protection				Yes		
DC surge protection				Yes		
Insulation impedance protection				Yes		
RCD detection				Yes		
General Data						
Dimensions(W/L/H)in mm				403/360/192		
Weight				15kg		
Noise				<30dB		
Operation temperature range				-25°C~+60°C		
Heat dissipation mode				Natural		
IP Class				IP 65		
Maximum altitude				4000m		
Self-Consumption night				<1w		
Topology				Transformerless		
Features						
LCD display				Yes		
Communication interface				WIFI/4G/GPRS/RS485(optional)		
Warranty				5 years (standard)		
Standards				IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777		



Power the World with Sunlight

Single Phase Hybrid Inverter

HI-3K-SL/HI-3.6K-SL/HI-4K-SL/HI-5K-SL/HI-6K-SL



Stable

Fanless design to prolong lifespan;
IP65 alloy enclosure; Full auto-protection.



Smart UPS

Smart LCD display;
Plug & Play, seamless switching under 10ms;
Sufficient backup power for emergency use.



Flexible

Up to 6 units parallel;
Single phase and unbalanced three phase paralleling;
No limits on cable length connecting to battery or AC.



Intelligent working modes

Self consumption mode for high tariff areas;
Charge priority mode for areas where grid power is unstable; Peak-load shifting mode for areas where tariff varies by time.



Easy use

Light, quick and easy installation;
Free & handy monitoring on mobile/PC;
Multi phases output on different hybrid models;
Multiple ports: 4*RS485, 2*CAN, USB, Dry-contact;
USB upgrade.



Easy to use with battery

Higher charging and discharging current;
Wide range of compatible battery brands;
Wake up lithium battery from sleep mode;
Essential info uploaded to INHE server for quick ESS diagnosis.



Power the World with Sunlight

Technical Data	HI-3K-SL	HI-3.6K-SL	HI-4K-SL	HI-5K-SL	HI-6K-SL
PV String Input Data					
Max. DC input power	4500W	5400W	6000W	7500W	9000W
Max. DC input voltage			550V		
Operation voltage range			80V-550V		
MPPT working voltage range			90V-550V		
Number of independent MPPT / strings per MPPT			2/1+1		
MPPT max. current			15A/15A		
Start-up voltage/Min.operating voltage			100V/80V		
AC Output/Input Data (On-grid)					
Nominal output apparent power	3000W	3600W	4000W	5000W	6000W
Max. output apparent power	3300VA	4000VA	4400VA	5500VA	6600VA
Nominal output voltage			230V/180V-280V		
Nominal output frequency			50Hz,60Hz/±5Hz		
Rated output current	13A	15.6A	18A	22A	26A
Max. output current	14A	17A	19A	24A	29A
Power factor			-0.8~+0.8(adjustable)		
THDi			<3%(Nominal Output)		
Grid system pattern			L+N+PE		
Max.apparent power from utility grid	6000VA	7200VA	8000VA	10000VA	12000VA
Max.AC current from utility grid	28A	32A	38A	48A	58A
Back-up Output Data (UPS)					
Peak output apparent power	4000VA,10s	4600VA,10s	5000VA,10s	6000VA,10s	7000VA,10s
Nominal output apparent power	3000VA	3600VA	4000VA	5000VA	6000VA
Nominal output voltage			208V,220V,230V,240V		
Nominal output frequency			50Hz/60Hz		
Output THDV			<3%		
Automatic switch time			<10ms		
Battery Input Data					
Battery type			Li-Ion /Lead-acid		
Nominal battery voltage			48V		
Battery voltage range			40V-60V		
Max. charging voltage			58V(Configurable)		
Max. charging/discharging current	70A	80A	100A	100A	100A
Battery capacity(AH)			50-2000		
Charging strategy for Li-Ion battery			Self-adaption to BMS		
Charging strategy for Lead-acid Battery			Three-stage		
Efficiency					
Max. efficiency	98%	98%	98%	98%	98%
Europe efficiency	97.5%	97.5%	97.5%	97.5%	97.5%
Max. battery to load efficiency	94%	94%	94%	94%	94%
Protection					
Anti islanding protection			Yes		
Insulation impedance protection			Yes		
RCD detection			Yes		
PV reverse polarity protection			Yes		
Output over voltage protection			Yes		
Output over current protection			Yes		
General Data					
Dimensions(W/L/H)in mm			375/365/240		
Weight			20kg		
Noise			<25dB		
Operation temperature range			-25°C~+60°C		
Heat dissipation mode			Natural		
IP Class			IP 65		
Maximum altitude			4000m		
Self-Consumption night			<3w		
Topology			Transformerless		
Features					
LCD display			Yes		
Communication interface			WiFi/4G/USB/CAN/RS485		
Warranty			5years (standard)		
Standards			CE,G83/G59,VDE0126-1-1,AS4777,AS/NZS3100,CEI 0-21,VDE-AR-N4105		



Power the World with Sunlight

Three Phase Grid-connected PV Inverter

SI-13K-T2/SI-15K-T2/SI-17K-T2/SI-20K-T2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.



Safe

IP 65 protection for indoor and outdoor installation. AC and DC surge protection guarantee system safety.



Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.



Reliable

Key components are from first rank brand supplier worldwide. R&D team are experienced experts in string inverter circle, proven technology create reliable quality.



Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.



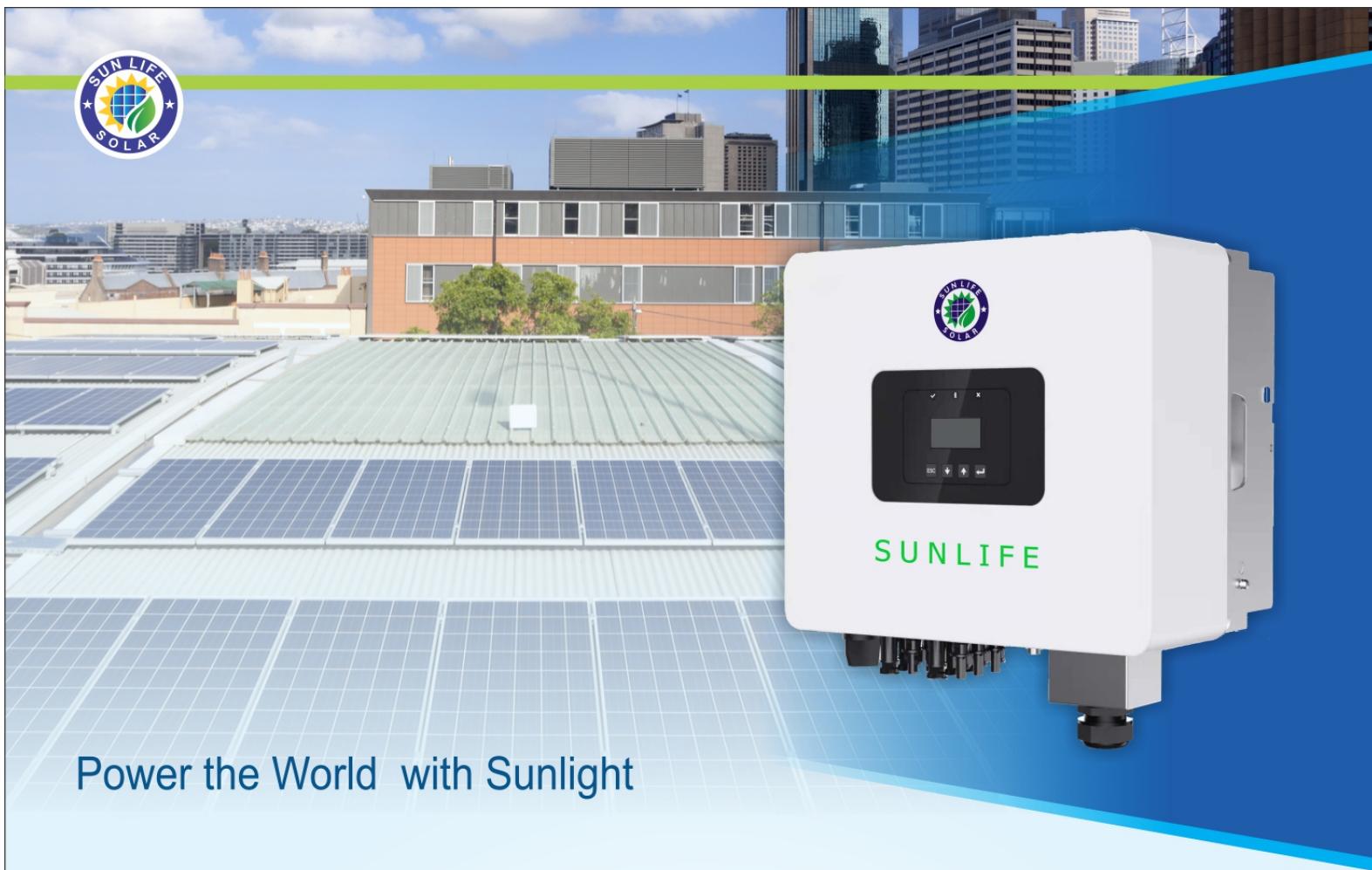
Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.



Power the World with Sunlight

Technical Data	SI-13K-T2	SI-15K-T2	SI-17K-T2	SI-20K-T2
Input Data				
Max. DC input power	17000W	19500W	22000W	26000W
Max. DC input voltage		1100V		
Operation voltage range		200V-1000V		
Number of independent MPPT / strings per MPPT	2/1+2	2/1+2	2/1+2	2/2+2
MPPT max. current	14A/28A	14A/28A	14A/28A	28A/28A
Max. Short Circuit Current per MPPT		18A/36A		36A/36A
AC Output Data				
Rated output power	13000W	15000W	17000W	20000W
Max. output power	14300W	16500W	18700W	22000W
Rated output voltage		380V,400V/±20%		
Rated output frequency		50Hz,60Hz/±5Hz		
Rated output current	19A	22A	25A	29A
Max. output current	21A	24A	27A	32A
Power factor		-0.8~+0.8(adjustable)		
THDi		<3%(Nominal Output)		
Grid system pattern		3W+N+PE		
Efficiency				
Max. efficiency		98.5%		
Europe efficiency		98.2%		
Protection				
Input DC switch		Yes		
Input over current protection		Yes		
DC reverse polarity protection		Yes		
Output over voltage protection		Yes		
Output over current protection		Yes		
Anti islanding protection		Yes		
AC surge protection		Yes		
DC surge protection		Yes		
Insulation impedance protection		Yes		
RCD detection		Yes		
General Data				
Dimensions(W/L/H)in mm		403/360/238		
Weight		18.5kg		
Operation temperature range		-25°C~+60°C		
Heat dissipation mode		Smart cooling		
IP Class		IP 65		
Maximum altitude		4000m		
Self-Consumption night		<1w		
Topology		Transformerless		
Features				
LCD display		Yes		
Communication interface		WIFI/4G/GPRS/RS485(optional)		
Warranty		5 years (standard)		
Standards		IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777		



Power the World with Sunlight

Three Phase Grid-connected PV Inverter

SI-22K-T2/SI-25K-T2/SI-27K-T2/SI-30K-T2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.



Safe

IP 65 protection for indoor and outdoor installation. AC and DC surge protection guarantee system safety.



Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.



Reliable

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Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.



Easy use

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Power the World with Sunlight

Technical Data	SI-22K-T2	SI-25K-T2	SI-27K-T2	SI-30K-T2
Input Data				
Max. DC input power	28600W	32500W	35000W	39000W
Max. DC input voltage		1100V		
Operation voltage range		200V-1000V		
Number of independent MPPT / strings per MPPT	2/2+2	2/2+2	2/2+3	2/2+3
MPPT max. current	28A/28A	28A/28A	28A/42A	28A/42A
Max.Short Circuit Current per MPPT	36A/36A		36A/54A	
AC Output Data				
Rated output power	22000W	25000W	27000W	30000W
Max. output power	24000W	27500W	29700W	33000W
Rated output voltage		380V,400V/±20%		
Rated output frequency		50Hz,60Hz/±5Hz		
Rated output current	32A	36A	40A	43.5A
Max. output current	35A	40A	43A	48A
Power factor	-0.8~+0.8(adjustable)			
THDi		<3%(Nominal Output)		
Grid system pattern		3W+N+PE		
Efficiency				
Max. efficiency	98.5%			
Europe efficiency	98.2%			
Protection				
Input DC switch		Yes		
Input over current protection		Yes		
DC reverse polarity protection		Yes		
Output over voltage protection		Yes		
Output over current protection		Yes		
Anti islanding protection		Yes		
AC surge protection		Yes		
DC surge protection		Yes		
Insulation impedance protection		Yes		
RCD detection		Yes		
General Data				
Dimensions(W/L/H)in mm		403/360/238		
Weight	20.5kg		22kg	
Operation temperature range		-25°C~+60°C		
Heat dissipation mode		Smart cooling		
IP Class		IP 65		
Maximum altitude		4000m		
Self-Consumption night		<1w		
Topology		Transformerless		
Features				
LCD display		Yes		
Communication interface		WIFI/4G/GPRS/RS485(optional)		
Warranty		5 years (standard)		
Standards		IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777		



Power the World with Sunlight

Three Phase Grid-connected PV Inverter

SI-33K-T2/SI-36K-T2/SI-40K-T2/SI-45K-T2/SI-50K-T2/SI-60K-T2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.



Safe

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Flexible

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Reliable

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Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.



Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.



Power the World with Sunlight

Technical Data	SI-33K-T2	SI-36K-T2	SI-40K-T2	SI-45K-T2	SI-50K-T2	SI-60K-T2
Input Data						
Max. DC input power	43000W	47000W	52000W	60000W	65000W	78000W
Max. DC input voltage			1100V			
Operation voltage range			200V-1000V			
Number of independent MPPT / strings per MPPT	2/3	2/3	2/4	3/3	3/3	3/4
MPPT max. current	45A*2	45A*2	52A*2	45A*3	45A*3	52A*3
Max.Short Circuit Current per MPPT	54A*2	54A*2	72A*2	54A*3	54A*3	72A*3
AC Output Data						
Rated output power	33000W	36000W	40000W	45000W	50000W	60000W
Max. output power	36000W	40000W	44000W	50000W	55000W	66000W
Rated output voltage			380V,400V/±20%			
Rated output frequency			50Hz,60Hz/±5Hz			
Rated output current	48A	52A	58A	65A	72A	87A
Max. output current	52A	58A	64A	72A	80A	95A
Power factor			-0.8~+0.8(adjustable)			
THDi			<3%(Nominal Output)			
Grid system pattern			3W+N+PE			
Efficiency						
Max. efficiency			98.5%			
Europe efficiency			98.2%			
Protection						
Input DC switch			Yes			
Input over current protection			Yes			
DC reverse polarity protection			Yes			
Output over voltage protection			Yes			
Output over current protection			Yes			
Anti islanding protection			Yes			
AC surge protection			Yes			
DC surge protection			Yes			
Insulation impedance protection			Yes			
RCD detection			Yes			
General Data						
Dimensions (W/L/H) in mm			433/498/287			
Weight	38kg		40kg			
Operation temperature range			-25°C~+60°C			
Heat dissipation mode			Smart cooling			
IP Class			IP 65			
Maximum altitude			4000m			
Self-Consumption night			<1w			
Topology			Transformerless			
Features						
LCD display			Yes			
Communication interface			WIFI/4G/GPRS/RS485(optional)			
Warranty			5 years (standard) / 20 years (optional & negotiable)			
Standards			IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777			



Power the World with Sunlight

Three Phase Grid-connected PV Inverter

SI 70K/SI 80K



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.



Safe

IP 65 protection for indoor and outdoor installation. AC and DC surge protection guarantee system safety.



Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.



Reliable

Key components are from first rank brand supplier worldwide. R&D team are experienced experts in string inverter circle, proven technology create reliable quality.



Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.



Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.



Power the World with Sunlight

Technical Data	SI 70K	SI 80K
Input Data		
Max. DC input power	85000W	100000W
Max. DC input voltage		1100V
Operation voltage range		200V-1000V
Number of independent MPPT / strings per MPPT	4/3	4/4
MPPT max. current	39A*4	52A*4
Max.Short Circuit Current per MPPT	48A*4	65A*4
AC Output Data		
Rated output power	70000W	80000W
Max. output power	77000W	88000W
Rated output voltage		380V,400V/±20%
Rated output frequency		50Hz,60Hz/±5Hz
Rated output current	101A	115A
Max. output current	111A	128A
Power factor		-0.8~+0.8(adjustable)
THDi		<3%(Nominal Output)
Grid system pattern		3W+N+PE
Efficiency		
Max. efficiency		99%
Europe efficiency		98.5%
Protection		
Input DC switch		Yes
Input over current protection		Yes
DC reverse polarity protection		Yes
Output over voltage protection		Yes
Output over current protection		Yes
Anti islanding protection		Yes
AC surge protection		Yes
DC surge protection		Yes
Insulation impedance protection		Yes
RCD detection		Yes
General Data		
Dimensions (W/L/H) in mm		690/640/296
Weight	55kg	68kg
Operation temperature range		-25°C~+60°C
Heat dissipation mode		Smart cooling
IP Class		IP 65
Maximum altitude		4000m
Self-Consumption night		<1w
Topology		Transformerless
Features		
LCD display		Yes
Communication interface		WIFI/4G/GPRS/RS485(optional)
Warranty		5 years (standard) / 20 years (optional & negotiable)
Standards		IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777