

SPHM6-55L

535-555 Watt

MONO CRYSTALLINE MODULE



SpolarPV
Easy Invest, More Returns

- SP535HM6-55L
- SP545HM6-55L
- SP555HM6-55L
- SP540HM6-55L
- **SP550HM6-55L**

21.2 %

Module efficiency



Product warranty

555 W

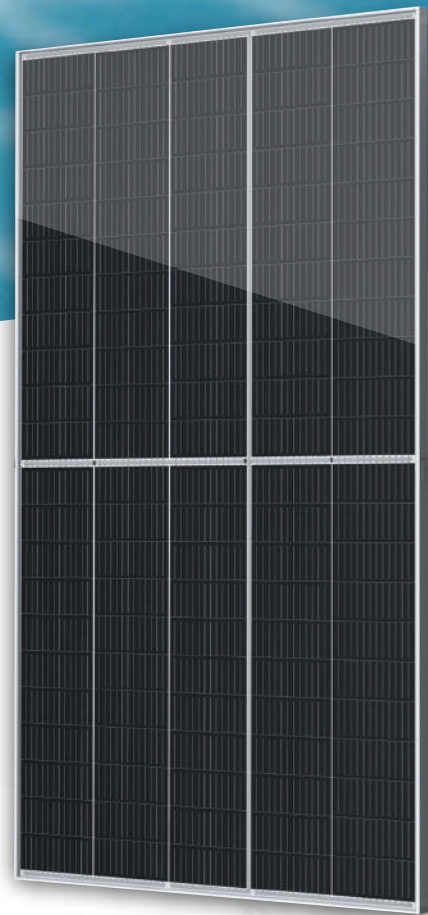
Highest power output



Linear power warranty

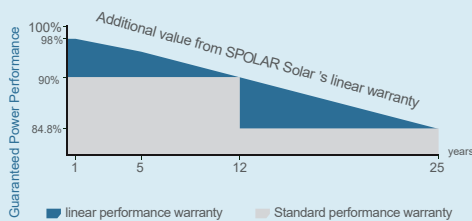
0 ~ +5W

Positive power tolerance



Key Features

Linear Performance Warranty



ISO9001:2016 ISO14001:2016
OHSAS18001:2011 certified factory.
IEC61215 IEC61730 certified products.

www.spolarpv.com



High Efficiency

Higher module conversion efficiency benefit from Passivated Emitter Rear Contact (PERC) technology.



PID Resistant

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



Low-light Performance

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



Severe Weather Resilience

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Durability against extreme environmental conditions

High salt mist and ammonia resistance.



Electrical Characteristics at Standard Test Conditions(STC)

Module Type	SP535HM6-55L	SP540HM6-55L	SP545HM6-55L	SP550HM6-55L	SP555HM6-55L
Maximum Power -Pmax (W)	535	540	545	550	555
Maximum Power Voltage - Vmp (V)	31.00	31.20	31.40	31.60	31.80
Maximum Power Current - Imp (A)	17.28	17.33	17.37	17.40	17.45
Open-circuit Voltage - Voc (V)	37.30	37.50	37.70	37.90	38.10
Short-circuit Current - Isc (A)	18.36	18.41	18.47	18.52	18.56
Module Efficiency STC (%)	20.5%	20.7%	20.9%	21.0%	21.2%

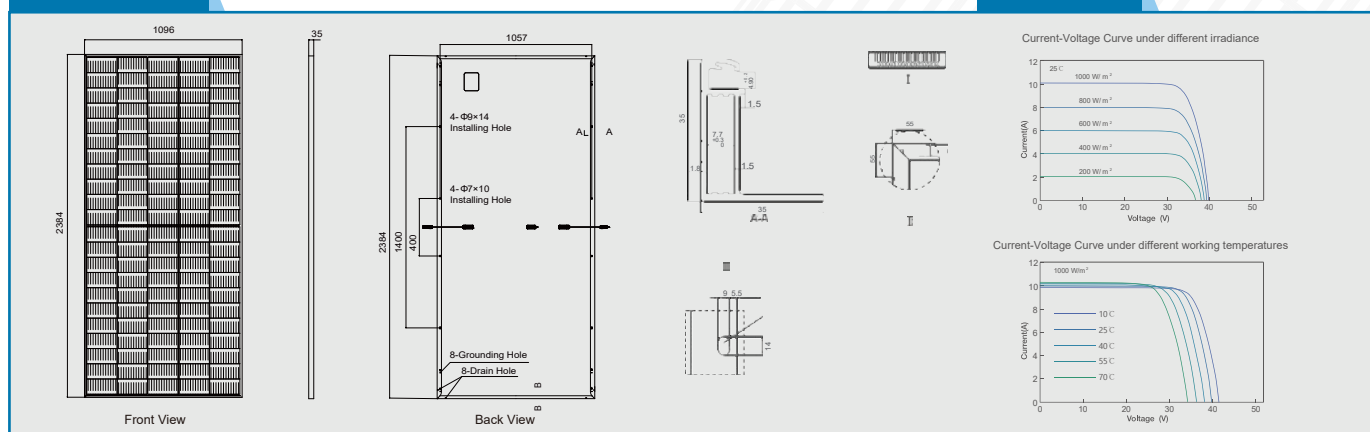
Electrical Characteristics at Normal Operating Cell Temperature(NOCT)

Module Type	SP535HM6-55L	SP540HM6-55L	SP545HM6-55L	SP550HM6-55L	SP555HM6-55L
Maximum Power -Pmax (W)	405	409	413	417	420
Maximum Power Voltage - Vmp (V)	28.80	29.00	29.20	29.30	29.50
Maximum Power Current - Imp (A)	14.06	14.10	14.15	14.19	14.23
Open-circuit Voltage - Voc (V)	35.10	35.30	35.50	35.70	35.90
Short-circuit Current - Isc (A)	14.80	14.84	14.88	14.92	14.96
Power tolerance	0~+5W		Operating Temperature(°C)		-40 C~+85 C
Temperature coefficients of Pmax	-0.34%/C		Maximum system voltage		1500V
Temperature coefficients of Voc	-0.25%/C		Maximum series fuse rating		30A
Temperature coefficients of Isc	0.04%/C		Nominal operating cell temperature		45±2 C

Mechanical Characteristics

Cell Type	Mono-crystalline PERC 210×105mm
No.of cells	55
Dimensions	2384×1096×35mm
Weight	28.6 kg
Front Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, MC4 Compatible, 3 Bypass Diodes
Output Cables	1×4.0mm ² , Length:600mm or Customized Length
Packaging Configuration	31pcs/pallet , 620pcs/40'HQContainer

Dimensions



*The company reserves the final right for explanation on any of the information presented hereby.

LIMITED WARRANTY STATEMENT PHOTOVOLTAIC MODULE PRODUCTS



SpolarPV
Easy Invest, More Returns

SP NO.1905100001

1.Limited Product Warranty - 12 Years Repair, Replacement or Refund Remedy

SpolarPV Technology Co., Ltd (hereafter as “SpolarPV”) warrants to the original buyer (the “Buyer”) that the modules shall be free from defects in materials and workman ship that have an effect on module functionality under normal application, installation, use and service conditions as specified in SpolarPV’s standard product documentation.

SpolarPV guarantees that the module will maintain the mechanical integrity and stability in accordance with approved operation methods described in our installation instructions; the glass of a module will maintain its integrity provided there are no indications of localized impacts or external forces; and that the cable and connector plug of a module will remain safe and operational provided modules are professionally installed. Any damages caused by abrasion, improper installation or animals are exempt from this warranty.

Claims under the warranty can only be accepted if the Buyer can provide proof that the malfunctioning or nonconformity of a module results exclusively from defects in materials and/or workmanship under normal application, installation, use and service conditions specified in SpolarPV’s standard product documentation. Any color change on module or any other changes on module appearance do not represent defects, insofar as the change in appearance does not stem from defects in material and/or workmanship, and does not cause degradation of functionality of the module. If the product fails to conform to this warranty, SpolarPV will, at its option, either repair or replace the product, or provide an appropriate residual market value of the product(s) as compensation.

2.Limited Peak Power Warranty - Limited Remedy

2.1 For poly crystalline and mono crystalline module products, SpolarPV guarantees the first year power degradation is no more than 2% from its nameplate power. From year 2 to year 25, the actual annual power decline will be no more than 0.55%. By the end of year 25, the actual power output will be no less than 84.8 % of the labeled power output.

2.2 The actual power output of the module shall be determined for verification using Standard Testing Conditions only. The actual power output measurement is either carried out by a SpolarPV facility or by a SpolarPV recognized 3rd party testing institute. Testing equipment tolerances will be applied to all actual power output measurements.

2.3 In the event it is determined that there is a negative deviation of actual performance from the warranted values then SpolarPV, at its option, will compensate for such loss in power by either providing to the Buyer additional modules to make up the total wattage loss, or by repairing or replacing the modules or providing an appropriate residual market value of the product(s) as compensation.

LIMITED WARRANTY STATEMENT PHOTOVOLTAIC MODULE PRODUCTS



SpolarPV
Easy Invest, More Returns

SP NO.1905100001

3.Exclusions and Limitations

3.1 Warranty claims must in any event be filed within the applicable warranty period.

3.2 The limited warranties do not apply to any PV modules which, in SpolarPV absolute judgment, have been subjected to:

- Misuse, abuse, neglect or accident;
- Alternation, improper installation or application;
- Non-observance of SpolarPV's installation-users and maintenance instructions;
- Repair or modifications by someone other than a qualified service technician;
- Power failure surges, lighting, flood, fire, accidental breakage or other events outside SpolarPV's control;
- Any move and subsequent installation of the module.

3.3 The limited warranties do not cover any shipping costs for the return of the PV modules, or for reshipment of any repaired or replaced PV modules, or cost associated with installation, removal or reinstallation of the PV modules.

3.4 Warranty claims will not be honored if the type or serial number of the PV modules have been altered, removed or made illegible. All other statements made by SpolarPV (including without limitation to those made in the SpolarPV's promotional materials) in respect of the properties, performance characteristics and other aspects of the modules are for illustration only and are not legally binding on SpolarPV. To the fullest extent permitted by law, SpolarPV excludes all implied representations and warranties in respect of the modules, their properties and performance characteristics. To the fullest extent permitted by law, SpolarPV also excludes all liabilities to the Buyer and any user of the PV modules produced by SpolarPV for any loss of actual or anticipated profits, revenues, turnover, anticipated savings, business or goodwill.

4.Disputes

No action, regardless of form, arising out of or in any way connected with this limited warranty policy, may be brought by the Buyer more than one (1) year after the cause of action has accrued.

5.Various

The repair or replacement of the PV modules or the supply of additional PV modules does not cause the beginning of new warranty terms, nor shall the original terms of this limited warranty be extended. Any replaced PV modules shall become the property of SpolarPV. SpolarPV has the right to deliver another type (different in size, color, shape and /or power) in case SpolarPV discontinues producing the PV-module in question at the time of the claim.

DECLARATION OF PERFORMANCE

NO. SPV2022071901

1. Product

Solar Module/Photovoltaic panel

2. Intended use:

Photovoltaic panel to generate electricity

3. Name and contact details of the manufacturer:

SpolarPV Technology Co.,Ltd

Address: Maoshan Road 39, Gaochun Economic Development Zone, Nanjing, Jiangsu, China

4. System of assessment and verification of performance constancy:

Related with Directive 2014/30/EU:

EN 61000-6-3: 2007+A1:2011

EN IEC 61000-6-1:2019

DIN EN 61215-1 (VDE 0126-31-1):2017-05; EN 61215-1:2016

DIN EN 61215-1-1 (VDE 0126-31-1-1):2018-06; EN 61215-1-1:2016

DIN EN 61215-2 (VDE 0126-31-2):2019-02; EN 61215-2:2017+AC:2017+AC:2018

DIN EN IEC 61730-1 (VDE 0126-30-1):2018-10; EN IEC 61730-1:2018+AC:2018

DIN EN IEC 61730-2 (VDE 0126-30-2):2018-10; EN IEC 61730-2:2018+AC:2018

Salt Mist Corrosion Test in acc. with IEC 61701:2011, severity 6

Ammonia Corrosion Test in acc. with IEC 62716:2013

5. Declared performance:

Max. system voltage (Usys)	DC 1000/1500 V
Class	II
Fire resistance	C in accordance with UL 790
Max. Over current protection rating	20/25 A
Mechanical design load	Frontside 3600 Pa, Rearside 1600 Pa
Safety factor	Frontside 1.5, Rearside 1.5
Test load	Frontside 5400 Pa, Rearside 2400 Pa

The basic product characteristics are consistent with the performance declared by the manufacturer.
This declaration of performance was issued under the exclusive responsibility of the manufacturer.
Signed on behalf of the manufacturer by:

南京思博拉能源科技有限公司
SpolarPV Technology Co.,Ltd
SPOLARPV TECHNOLOGY CO., LTD