

SPHM6-72L

425-465 Watt

MONO CRYSTALLINE MODULE



SpolarPV
Easy Invest, More Returns

- SP425HM6-72L
- SP430HM6-72L
- SP435HM6-72L
- SP440HM6-72L
- SP445HM6-72L
- SP450HM6-72L
- **SP455HM6-72L**
- SP460HM6-72L
- SP465HM6-72L

21.39%

Module efficiency



Product warranty

465 W

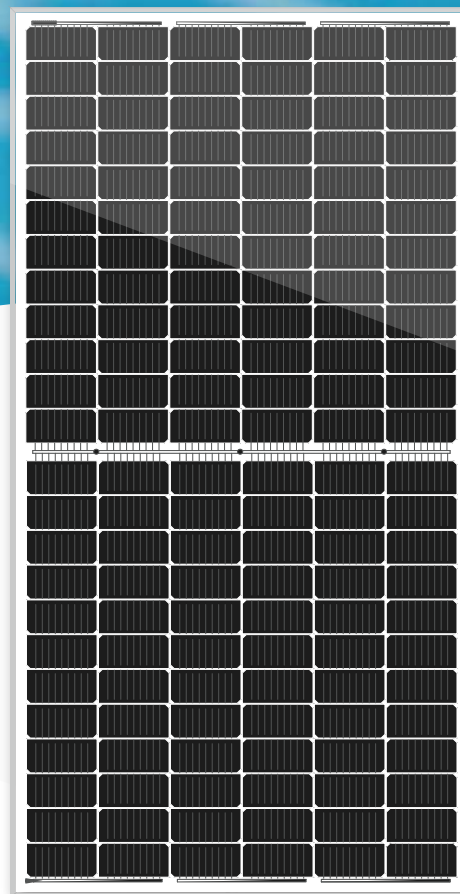
Highest power output



Linear power warranty

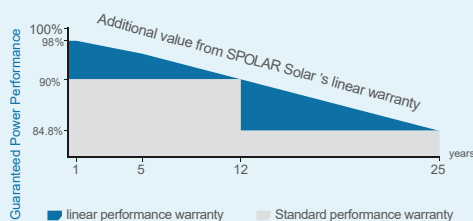
0 ~ +5W

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)/ Normal Operating Cell Temperature(NOCT)

Module Type	SP425HM6-72L	SP430HM6-72L	SP435HM6-72L	SP440HM6-72L	SP445HM6-72L
Maximum Power -Pmax (W)	425 / 316	430 / 320	435 / 324	440 / 327	445 / 331
Maximum Power Voltage - Vmp (V)	40.4 / 37.41	40.6 / 37.59	40.8 / 37.82	41.0 / 37.92	41.2 / 38.16
Maximum Power Current - Imp (A)	10.52 / 8.45	10.60 / 8.51	10.67 / 8.57	10.74 / 8.62	10.80 / 8.67
Open-circuit Voltage - Voc (V)	48.2 / 45.40	48.4 / 45.73	48.70 / 46.05	48.90 / 46.23	49.20 / 46.55
Short-circuit Current - Isc (A)	11.12 / 8.98	11.18 / 9.03	11.24 / 9.08	11.30 / 9.13	11.36 / 9.17
Module Efficiency STC (%)	19.55	19.78	20.01	20.24	20.47

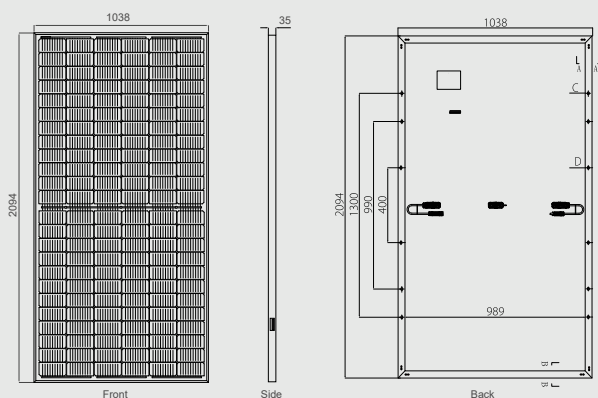
Electrical Characteristics at Standard Test Conditions(STC)/ Normal Operating Cell Temperature(NOCT)

Module Type	SP450HM6-72L	SP455HM6-72L	SP460HM6-72L	SP465HM6-72L
Maximum Power -Pmax (W)	450 / 335	455 / 339	460 / 342	465 / 346
Maximum Power Voltage - Vmp (V)	41.4 / 38.38	41.6 / 38.6	41.8 / 38.70	42.0 / 38.92
Maximum Power Current - Imp (A)	10.87 / 8.73	10.94 / 8.78	11.00 / 8.84	11.07 / 8.89
Open-circuit Voltage - Voc (V)	49.50 / 46.87	49.70 / 47.1	49.90 / 47.39	50.10 / 47.74
Short-circuit Current - Isc (A)	11.42 / 9.22	11.48 / 9.27	11.53 / 9.31	11.58 / 9.35
Module Efficiency STC (%)	20.70	20.93	21.16	21.39
Power tolerance	0~+5W		Operating Temperature(°C)	-40 °C ~+85 °C
Temperature coefficients of Pmax	-0.370%/°C		Maximum system voltage	1500 V
Temperature coefficients of Voc	-0.286%/°C		Maximum series fuse rating	20A
Temperature coefficients of Isc	0.050%/°C		Nominal operating cell temperature	45±2 °C

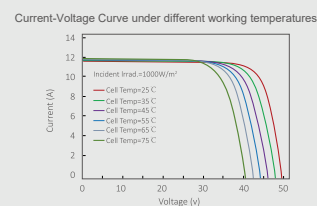
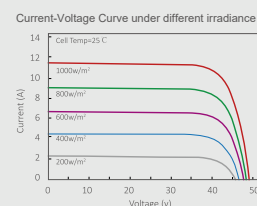
Mechanical Characteristics

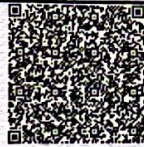
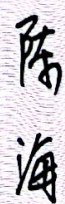
Cell Type	Mono-crystalline PERC 166×83mm
No.of cells	144 (6×24)
Dimensions	2094×1038×35mm
Weight	23.0 kg
Glass	Single Glass 3.2mm Coated Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Three Diodes
Output Cables	1×4.0mm ² , Length:600mm or Customized Length
Packaging Configuration	67pcs/stack, 737pcs/40'HQContainer

Dimensions

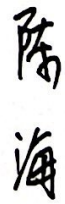


IV-Curves



1. Exporter SpolarPV Technology Co.,Ltd Add:Maoshan Road 39, Gaochun Economic Development Zone, Nanjing, Jiangsu, China. Tel:+86-25 58351206 Fax:+86 25 58351206 ***		Serial No. CCPIT320 2302281930 Certificate No. 23C3201C2068/00001R 	
2. Consignee ELLVICA SRL Add:mun. Comrat, str. PUSHKIN 24, ap.16, Republic of Moldova Tel:+373 785 80 605 VAT:4601062		 CERTIFICATE OF ORIGIN OF THE PEOPLE'S REPUBLIC OF CHINA ISSUED RETROSPECTIVELY	
3. Means of transport and route FROM NINGBO CHINA TO MOLDAVIA REPUBLIC OF MOLDOVA VIA ROTTERDAM NETHERLANDS BY SEA		5. For certifying authority use only CHINA COUNCIL FOR THE PROMOTION OF INTERNATIONAL TRADE IS CHINA CHAMBER OF INTERNATIONAL COMMERCE	
4. Country / region of destination REPUBLIC OF MOLDOVA		VERIFY URL:HTTP://CHECK.CCPITECO.NET/	
6. Marks and numbers N/M	7. Number and kind of packages; description of goods TWENTY TWO (22) PALLETS OF TWENTY-TWO (22) PALLETS OF SOLAR PANEL TO REPUBLIC OF MOLDOVA, EXW ROTTERDAM SP455HM6-72L ***	8. H.S.Code 854143	9. Quantity 737PIECES
		10. Number and date of invoices SP2023051101FS- R MAY.18,2023	
11. Declaration by the exporter The undersigned hereby declares that the above details and statements are correct, that all the goods were produced in China and that they comply with the Rules of Origin of the People's Republic of China.  南京思博拉能源科技有限公司 SPOLARPV TECHNOLOGY CO., LTD		12. Certification It is hereby certified that the declaration by the exporter is correct.  CHINA COUNCIL FOR THE PROMOTION OF INTERNATIONAL TRADE (NANJING) ADDRESS: 5TH FLOOR NO.259 MIDDLE JIANGDONG ROAD FAX:86-25-83635362 TEL:025-83635361  陈海	
NANJING CHINA JUN.07,2023 ----- Place and date, signature and stamp of authorized signatory		NANJING CHINA JUN.07,2023 ----- Place and date, signature and stamp of certifying authority	

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S/N: 001640

No.: ICR Polska/VC/AX210502

Name and address of Applicant

SpolarPV Technology Co., Ltd
Maoshan Road 39, Gaochun Economic Development Zone, Nanjing, Jiangsu, China

Name and address of manufacturer:

SpolarPV Technology Co., Ltd
Maoshan Road 39, Gaochun Economic Development Zone, Nanjing, Jiangsu, China

Product name:

SOLAR MODULE

Product types:

SPM6 Series(5W-520W), SPHM6 Series(5W-610W), SPP6 Series(5W-480W),
SPHP6 Series(5W-520W), SPM5 Series(5W-350W)

Product trademark:

n/a

This document confirms that the product sample meets the requirements of the following standards:

- Related with Directive 2014/30/EU:
EN 61000-6-3:2007+A1:2011
EN IEC 61000-6-1:2019

The assessment process has been carried out in accordance with individual rules and conditions agreed with the applicant. Evaluation has been carried out in accordance with:

Test report: B-E210536612

Tests conducted by: BEIDE

Issue date: 28.05.2021

Expiration date: 27.05.2026

Remarks:

Document refers to the above mentioned product and its conformity in regards of above mentioned standard(s) was proven on test sample
Document was issued on voluntary basis and does not imply meeting all essential requirements, assessment of the series-production or any other restricted Notified Bodies conformity assessment procedure appropriate for the product
Document status can be checked: <https://cert.icrpolska.com/>

CE marking remarks:

CE mark is not sanctioned by the following document
CE mark given here as reference, can be only use by the manufacturer after applying all essential requirements from relevant directives



Director: Rafal Kalinowski
Warsaw, 28.05.2021



CERTIFICATE

TÜV NORD CERT GmbH

herewith declares that

SPOLARPV TECHNOLOGY Co., Ltd.

Maoshan Road 39, Gaochun Economic Development Zone,
Nanjing City, Jiangsu Province,
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

PV Modules with 6" Mono-crystalline Silicon Solar Cells

PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells



Valid from: 2021-01-22

Valid until: 2025-09-21

Tested according to: IEC / EN 61215-1:2016;
IEC / EN 61215-1-1:2016;
IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018;
IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018;
IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.

Registered No.: 44 780 21 406749 - 014

Manufacturer: see Annex 1

Test Report No.: 492011595.001

File No.: PVP11085/20P



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2021-01-22

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 21 406749 - 014

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP11085/20P

2021-01-22

Manufacturer:

Manufacturer:

SPOLARPV TECHNOLOGY Co., Ltd.

Maoshan Road 39, Gaochun Economic Development Zone,
Nanjing City, Jiangsu Province, P.R. China

Factory inspection report no.:

862010511.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

A handwritten signature in blue ink, appearing to read "Rüdiger K.", is positioned above the company name.

TÜV NORD CERT GmbH
Certification Body
Consumer Products

ZEICHENGENEHMIGUNG MARKS APPROVAL

SpolarPV Technology Co., Ltd,
Maoshan Road 39,
Gaochun Economic Development Zone
211300 Nanjing City
Jiangsu
China

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Terrestrische Photovoltaik-Module mit Silizium-Solarzellen
Crystalline silicon terrestrial photovoltaic modules

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

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

Das Produkt erfüllt auch die Anforderungen nach /
The product also fulfills the requirements of

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

Aktenzeichen: 5026451-3972-0001 / 287949

File ref.:

Ausweis-Nr. 40051201

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2019-12-20

(letzte Änderung / updated 2021-07-27)

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>