

# 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

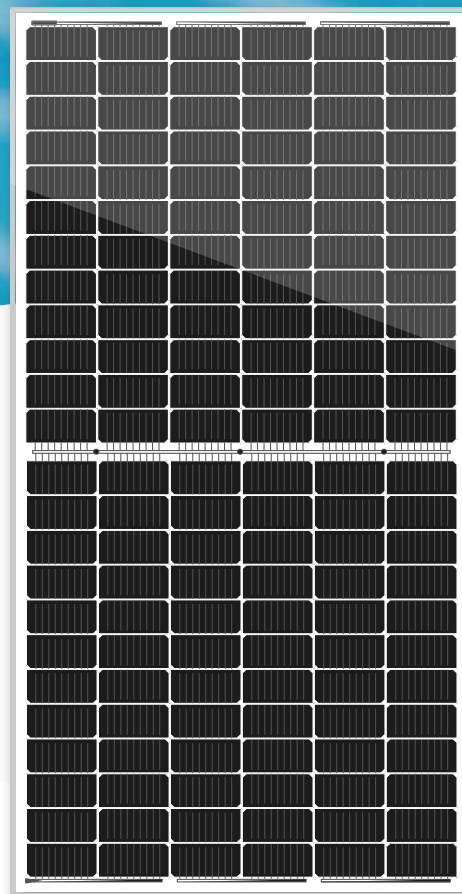
Highest power output



Linear power warranty

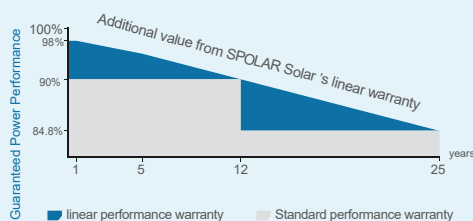
## 0 ~ +5W

Positive power tolerance



### Key Features

#### Linear Performance Warranty



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

[www.spolarpv.com](http://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

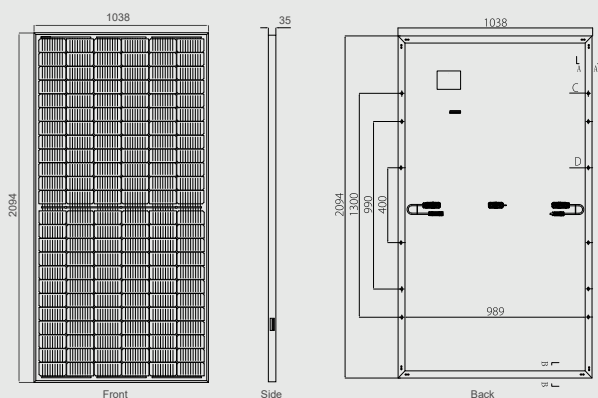
## Electrical Characteristics at Standard Test Conditions(STC)/ Normal Operating Cell Temperature(NOCT)

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

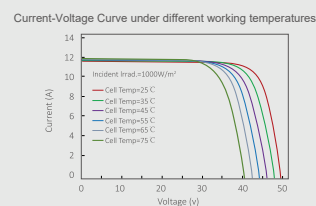
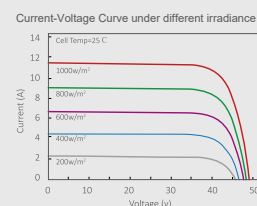
## Mechanical Characteristics

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 <sup>2</sup> , Length:600mm or Customized Length
Packaging Configuration	67pcs/stack, 737pcs/40'HQContainer

## Dimensions



## IV-Curves



# 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.



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products



**Description of product(s):**

Module types:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells:</b> 72 cells: SPxxxM6-72 (xxx = 375-385, in increment of 5) 60 cells: SPxxxM6-60 (xxx = 315-320, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells:</b> 144 cells: SPxxxHM6-72L (xxx = 380-415, in increment of 5) 120 cells: SPxxxHM6-60L (xxx = 315-345, in increment of 5) 144 cells: SPxxxHM6-72L (xxx = 425-465, in increment of 5) 120 cells: SPxxxHM6-60L (xxx = 355-385, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)





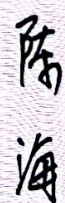
**Remark:**

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.







**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products





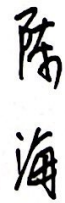


<b>1. Exporter</b> SpolarPV Technology Co.,Ltd Add:Maoshan Road 39, Gaochun Economic Development Zone, Nanjing, Jiangsu, China. Tel:+86-25 58351206 Fax:+86 25 58351206 ***		Serial No. CCPIT320 2302281930 Certificate No. 23C3201C2068/00001R 	
<b>2. Consignee</b> ELLVICA SRL Add:mun. Comrat, str. PUSHKIN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