







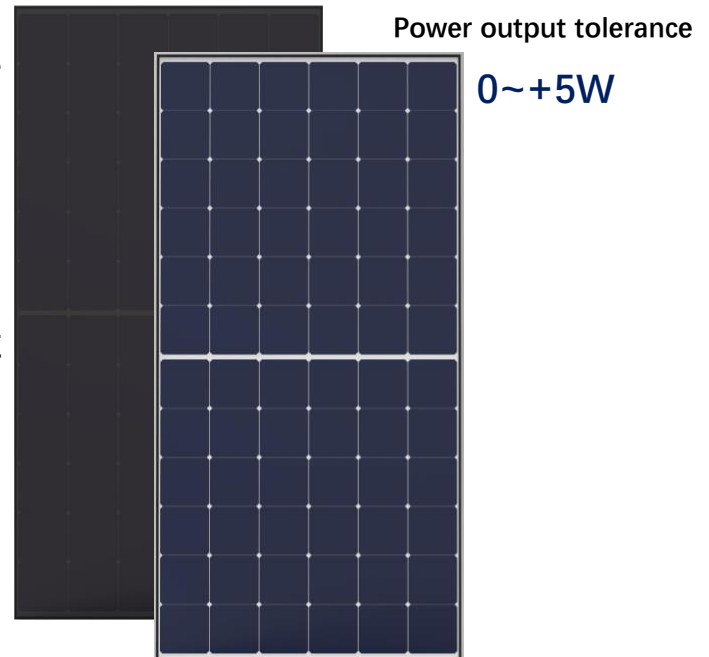
ANDROMEDA 2.0

IBC monofacial 144 half-cell module

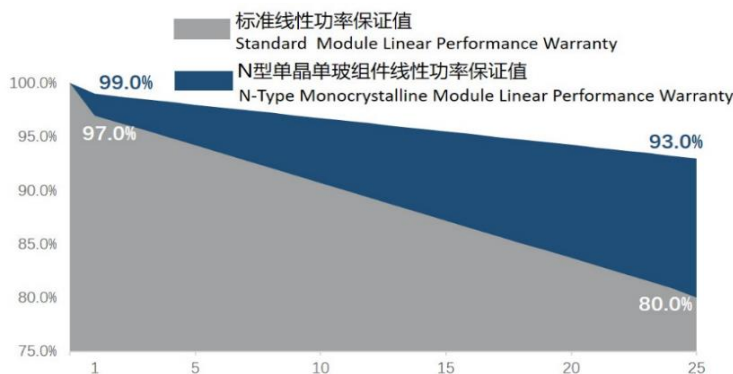
SPICN6(LAR)-72/IH

High Efficiency Elegant Series 450W/455W/460W/465W

-  No busbar on front side, elegant appearance
-  N-type solar cell has no LID naturally
-  Better weak illumination response
-  Higher module power decrease system LCOE
-  Better Temperature Coefficient
-  Current grading reduces mismatch



Linear Performance Warranty



Made in China

1st year degradation: **-1.0%**

Annual degradation: **0.25%**

Linear power warranty: **25 years**

Product material & workmanship warranty: **25 years**

Comprehensive Qualifications & Certifications

ISO 9001:2015 Quality Management Systems
 ISO 14001:2015 Environment Management Systems
 ISO 45001:2018 Occupational Health and Safety Management Systems



The Module fire resistance class is Class C
 PV Modules are installed via bolts and clamps
 Two EL tests during manufacturing to ensure products quality.



**ANDROMEDA 2.0 High Efficiency Elegant Series
SPICN6(LAR)-72/IH**

Electrical Parameters (STC*)

| Module Type | SPICN6(LAR)-72-450/IH | SPICN6(LAR)-72-455/IH | SPICN6(LAR)-72-460/IH | SPICN6(LAR)-72-465/IH |
|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Peak Power (Pmax) / W | 450 | 455 | 460 | 465 |
| MPP Voltage (Vmp) / V | 42.0 | 42.2 | 42.4 | 42.6 |
| MPP Current (Imp) / A | 10.72 | 10.79 | 10.85 | 10.92 |
| Open Circuit Voltage (Voc) / V | 49.9 | 50.0 | 50.1 | 50.2 |
| Short Circuit Current (Isc) / A | 11.66 | 11.72 | 11.78 | 11.84 |
| Module Efficiency (η) / % | 21.0% | 21.3% | 21.5% | 21.7% |

*STC (Standard Test Condition): Irradiance 1000W/m², Cell temperature 25°C, AM1.5 (Measurement Tolerance: ±3%)

Electrical Parameters (NOCT*)

| Module Type | SPICN6(LAR)-72-450/IH | SPICN6(LAR)-72-455/IH | SPICN6(LAR)-72-460/IH | SPICN6(LAR)-72-465/IH |
|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Peak Power (Pmax) / W | 338 | 342 | 346 | 350 |
| MPP Voltage (Vmp) / V | 39.1 | 39.3 | 39.5 | 39.7 |
| MPP Current (Imp) / A | 8.65 | 8.71 | 8.76 | 8.82 |
| Open Circuit Voltage (Voc) / V | 47.8 | 47.9 | 48.0 | 48.1 |
| Short Circuit Current (Isc) / A | 9.29 | 9.37 | 9.45 | 9.53 |

*NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Operating Properties

| | |
|------------------------------------|----------------|
| Maximum System Voltage | 1500V DC (IEC) |
| Maximum Series Fuse Rating | 20A |
| Operating Temperature | -40 ~ +85°C |
| Nominal Operating Cell Temperature | 42±2°C |
| Temperature Coefficient of Pmax | -0.290%/°C |
| Temperature Coefficient of Voc | -0.246%/°C |
| Temperature Coefficient of Isc | +0.046%/°C |

Mechanical Properties

| | |
|--------------|--|
| Cell Type | N IBC 166×83 mm (Half-cell) |
| No. of Cells | 144 (12×12) |
| Dimensions | 2075×1039×35mm / 2060×1039×35mm / 2051×1039×35mm |
| Weight | 23.0±0.5kg / 22.5±0.5kg |
| Front Glass | 3.2mm, High transmission, Low Iron, Tempered Glass |
| Frame | Aluminium Alloy |
| Junction Box | IP68 Rate (3 diodes) |
| Cables | TÜV 1×4mm ² , 1600mm (Or Custom Design) |
| Connector | See the following table for details |



| Connector manufacturer | Allowable male type to mate | Famele type | Rated Voltage |
|---|-----------------------------|--|---------------|
| Zhejiang Zhonghuan Sunter PV Technology Co., Ltd. | general | PV-ZH202B; PV-ZH202 | 1500V |
| LEONI Cable (China) Co., Ltd. | general | LSC-R1; LSC-R1-B | 1500V |
| QC Solar (Suzhou) Corporation | general | QC 4.10-cd | 1500V |
| Amphenol Technology (Shenzhen) Co., Ltd. | general | UTXCF abcd; UTXCM abcd; UTXCFabcde; UTXCMabcd | 1500V |
| Staubli Electrical Connectors AG | general | PV-KST4/xy-UR; PV-KBT4/xy-UR; PV-KST4-EVO 2/xy_UR; PV-KBT4-EVO 2/xy_UR | 1500V |
| Suzhou Xtong Photovoltaic Technologies Co., Ltd. | general | PV-ST101.1 | 1500V |
| Dongguan Zerun Electronics Technology Co., Ltd. | general | Z4S-abcde | 1500V |
| Tyco Electronics (Shanghai) Co., Ltd. | general | PV4-S 1yx | 1500V |
| Amphenol Industrial Operations | general | H4-abcdef | 1500V |



Engineering Drawing (unit: mm)

