

540W / NU-JD 540

Mono-crystalline PERC Half Photovoltaic Module

Sharp Solar. The sun is the answer.



Sharp, leader in the solar industry: Shipping more than 15.9 GW globally Experience in PV technology since 1959



We select the materials based on what we have learned over the past 6 decades of making modules and validate our choices with rigorous testing that goes well beyond standard test protocols established by UL and the IEC. We have selected high efficiency monocrystalline cells to give you more power and more energy per square meter.

Our warranties are based on real history of past installations beyond the timespans stipulated.

Using breakthrough technology, made possible by over 60 years of proprietary research and development, Sharp's solar modules incorporate an advanced surface texturing process to increase light absorption and improve efficiency.

Common applications include commercial and residential grid-tied roof systems as well as ground mounted arrays. Designed to withstand rigorous operating conditions, this module offers high power output per square meter of solar array.

FROM THE WORLD'S TRUSTED SOURCE FOR SOLAR.

MONOCRYSTALLINE MODULE

MULTI-PURPOSE 540 WATT

Product features

- Positive Power Tolerance : Production controlled positive power tolerance from 0 to + 5W Only modules will be delivered that have the specified power or more for high energy yield.
- High-performance photovoltaic modules: Made of monocrystalline PERC Half solar cells with module efficiencies of up to 20.89%.
- PID Free:
 Sharp delivers convincing performance in independent test by Fraunhofer.
 *PID : potential-induced degradation
- 10 busbars technology for enhancing the power output

MECHANICAL DATA

| Cells | Mono crystalline silicon |
|------------------------------|--|
| No. of cells and connections | 144 pcs (72 series cells in parallel) |
| Dimensions (LxWxD) | 2,279×1,134×35mm |
| Weight | 27.8kg |
| Frame | AI 6063-T5/6005-T6 |
| 9lass | AR coating tempered glass |
| Back sheet | Fluoride or Fluoride-free backsheet |
| Junction Box | Protection Degree IP68 |
| Cable | 4.0 mm; Length as per customer requirement |
| Connector | Solargiga C1 series, IP-rating 68 |

| Electrical data (at STC*) | | |
|-----------------------------------|------------------|--------------------|
| Maximum power | P _{max} | 540 W _p |
| Tolerance of Pmax | | +5% / -0% |
| Open-circuit voltage | V _{oc} | 50.34 V |
| Short-circuit current | I _{sc} | 13.66 A |
| Voltage at point of maximum power | V _{mpp} | 41.64 V |
| Current at point of maximum power | l _{mpp} | 12.97 A |
| Module efficiency | η _m | 20.89 % |
| | | |

STC = Standard Test Conditions: irradiance 1,000 W/m², AM 1.5, cell temperature 25 $^{\circ}$ C

| Limit values | |
|------------------------------|---------------|
| Maximum system voltage | 1,500 VDC |
| Over-current protection | 25A |
| Temperature range | –40 to +85 °C |
| Maximum mechanical test load | 2,400 Pa |

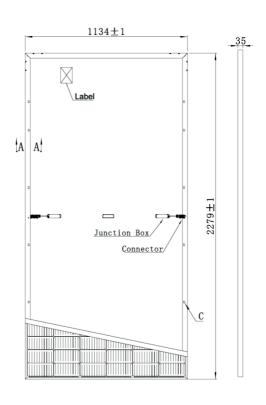
Standards and Certification

* IEC 61215

* IEC 61730

| Temperature coefficient | | |
|-------------------------|--------------|--|
| Pmax | −0.341% /°C | |
| V _{oc} | -0.262 % /°C | |
| I _{sc} | +0.054% / °C | |

Rear view



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