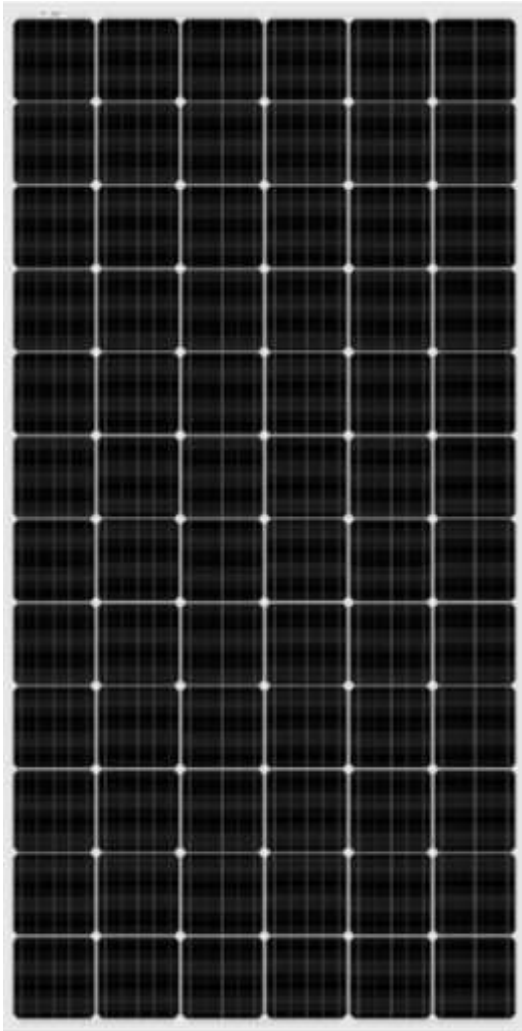


340 W Monocrystalline 72-cell Modules (1500V) [Tentative]

Sharp, a leader in the solar industry: Around 13 GW globally installed with experience in PV technology since 1959.



MULTI-PURPOSE MONOCRYSTALLINE MODULES FROM THE WORLD'S TRUSTED SOURCE FOR SOLAR.

Although you may know Sharp for high quality televisions, videoconferencing and document copiers, Sharp has a long history of excellence in solar. We began our research in 1959 and introduced our first solar modules in 1963. Since then, we have continuously advanced the technology, manufacturing quality and performance of our modules at the same time as we've grown the infrastructure to train our installers and provide extraordinary service for our customers.

The NU Series is engineered for highest reliability and performance.

- We select the materials based on what we have learned over the past 5 decades of making modules and validate our choices with rigorous testing that goes well beyond standard test protocols established by the IEC. We have selected high efficiency monocrystalline cells to give you more power and more energy per square meter.
- Newest cell processes implemented to eliminate potential induced degradation (PID) and the need to ground one leg of the system.
- 5 busbars used on every cell to reduce internal losses, enhance output and improve durability.
- Production-controlled positive power tolerance from 0% to +5%. Only modules with the specified or higher output are shipped (for high energy yield).
- Our warranties are based on real history of past installations beyond the timespans stipulated.

[Warranties]

10 Year Product Workmanship Warranty

25 Year Linear Power Warranty

(Please refer to Sharp's warranty for details)

[Certifications]

IEC 61215 / IEC61730



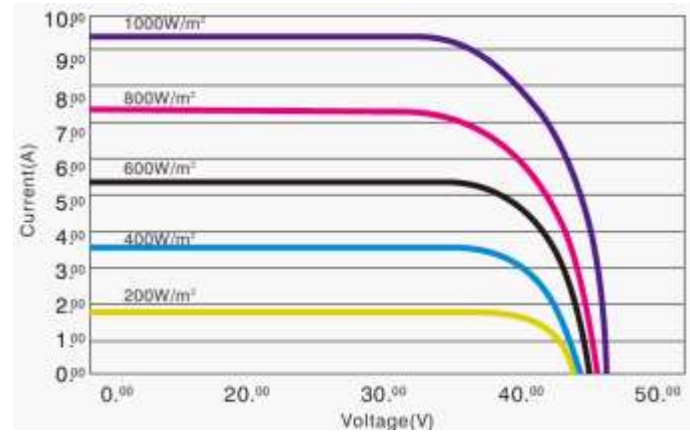
340 W Monocrystalline 72-cell Modules (1500V) [Tentative]

Mechanical Data

Item	Specifications
Dimensions	1,956 mm(L) x 992 mm(W) x 35 mm (D) / 77.0 (L) x 39.1(W) x 1.38 (D) inches
Weight	22.2 kg / 48.9 lbs
Solar Cells	Monocrystalline 156.75mm (6 inches) cells
Cell Orientation	72 cells (6 x 12)
Front Glass	Anti-reflective tempered solar glass, 3.2 mm (0.13 inches) thickness
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Backsheet	White
Junction Box	IP 68 rated
Frame	35 mm anodized aluminum alloy (silver)
Connector	MC4 compatible
Packaging Configuration	30 pcs per Pallet, 720 pcs per 40ft High Cube Container

Characteristic Curves

Characteristic curves: current and voltage as a function of irradiance (cell temperature:25°C)

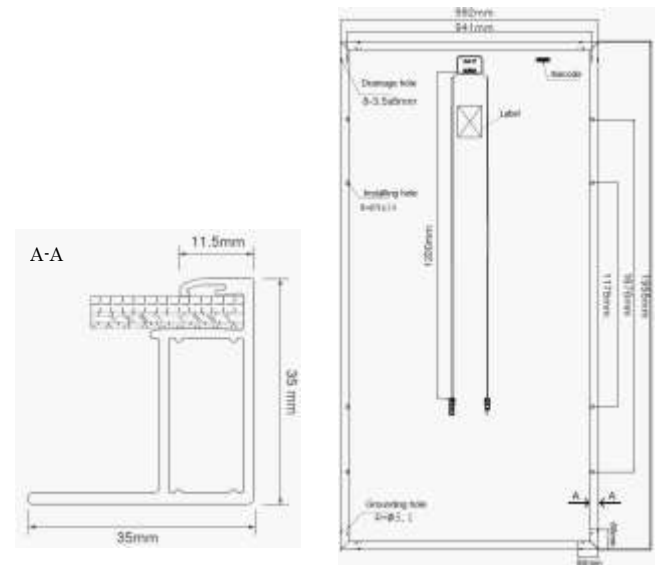


Electrical Data (at STC*)

Model	NUAH340H
Maximum Rating Power(Pmax)	340
Module Efficiency	17.5%
Open Circuit Voltage(Voc)	46.6 V
Maximum Power Voltage(Vpm)	38.2 V
Short Circuit Current (Isc)	9.49 A
Maximum Power Current (Ipm)	8.90 A

*STC=Standard Test Conditions: Irradiance 1,000 W/m², AM 1.5, Cell Temperature 25°C

Frame Section and Back View



Electrical Data (at NOCT**)

Model	NUAH340H
Maximum Power(Pmax)	247.8W
Open Circuit Voltage(Voc)	43.4 V
Maximum Power Voltage(Vpm)	35.0 V
Short Circuit Current (Isc)	7.63 A
Maximum Power Current (Ipm)	7.08 A

**NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

Certified Operating Conditions

Item	Specifications
Max. mechanical load (snow / wind)	2,400 Pa
Tested snow load (IEC61215 test pass*)	5,400 Pa
*Please refer to Sharp's installation manual for details.	
Maximum System Voltage	DC 1500V
Series Fuse Rating	15 A
Operating Temperature	-40 °C to 85 °C

Temperature Ratings

Normal Operating Cell Conditions (NOCT)	45 °C (± 2 °C)
Temp. Coefficient (Pmax) γ	-0.41 % / °C
Temp. Coefficient (Voc) β	-0.32 % / °C
Temp. Coefficient (Isc) α	0.055 % / °C

Quality Assurance

In-house standards beyond certification requirements. Quality checked at every step of the process, including visual inspection, electrical testing of every individual cell and module and a 100% EL scan of every module both before and after lamination.

