

Sunova Solar Panels

HI-KILO Series
SS-460-60MDH
445-460Wp



Nominal Power: 445-460Wp



Wind/Snow Load: 2400/5400Pa



Dimension: 1903 x 1134 x 30mm



Efficiency: Up to 21.3 %

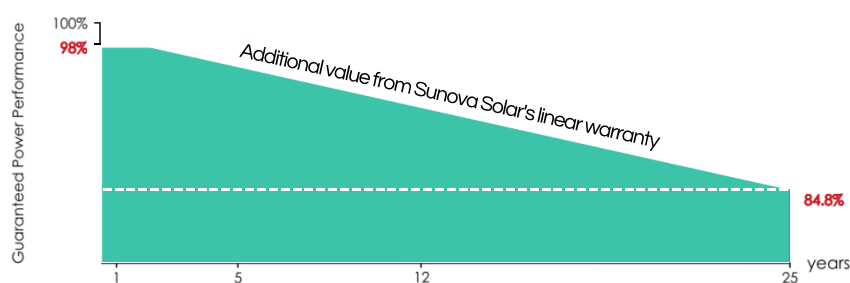


Maximum System Voltage: 1500 V



Weight: 24 kg

Linear Performance Warranty



25 Years

Linear power
guarantee

15 Years

Product quality
&
process guarantee

0.55 %

Annual
Degradation
Over 25 years

Comprehensive Certificates

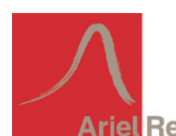


ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

OHSAS 18001: International Occupational Health and Safety Assessment System Standard

Performance Insurance



中国平安

PING AN
P & C INSURANCE CO CN SZN

Electric Characteristics

| Model of modules | SS-445-60MDH | | SS-450-60MDH | | SS-455-60MDH | | SS-460-60MDH | |
|--------------------------------------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum power — P_{mp} (W) | 445 | 332 | 450 | 335 | 455 | 339 | 460 | 343 |
| Open-circuit voltage — V_{oc} (V) | 41.27 | 38.79 | 41.46 | 38.97 | 41.65 | 39.15 | 41.78 | 39.34 |
| Short-circuit current — I_{sc} (A) | 13.42 | 10.88 | 13.47 | 10.91 | 13.54 | 10.97 | 13.63 | 11.01 |
| Maximum power voltage — V_{mp} (V) | 34.46 | 32.05 | 34.62 | 32.19 | 34.78 | 32.35 | 34.89 | 32.52 |
| Maximum power current — I_{mp} (A) | 12.92 | 10.36 | 13.01 | 10.41 | 13.09 | 10.48 | 13.19 | 10.55 |
| Module efficiency — η_m (%) | 20.6% | | 20.9% | | 21.1% | | 21.3% | |
| Power tolerance (W) | (0,+5) | | | | | | | |
| Maximum system voltage (V) | 1500 | | | | | | | |
| Maximum rated fuse current (A) | 25 | | | | | | | |
| Current operating temperature (°C) | -40~+85°C | | | | | | | |

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C, Spectra at AM1.5

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

Structural Characteristics

| | |
|---------------------------|--|
| Module dimensions (L*W*H) | 1903 x 1134 x 30 mm |
| Weight | 24 kg |
| Number of cells | 120 cells |
| Cell | PERC Monocrystalline 182x91 mm |
| Glass | Tempered, 3.2 mm AR, High transmittance, Low iron |
| Frame | Anodized aluminum alloy |
| Junction box | IP68 |
| Output wire | 4.0 mm ² , wire length: 300 mm or Customized Length |
| Connector | MC4 Compatible |
| Mechanical load | Snow load: 5400 Pa / Wind load: 2400 Pa |

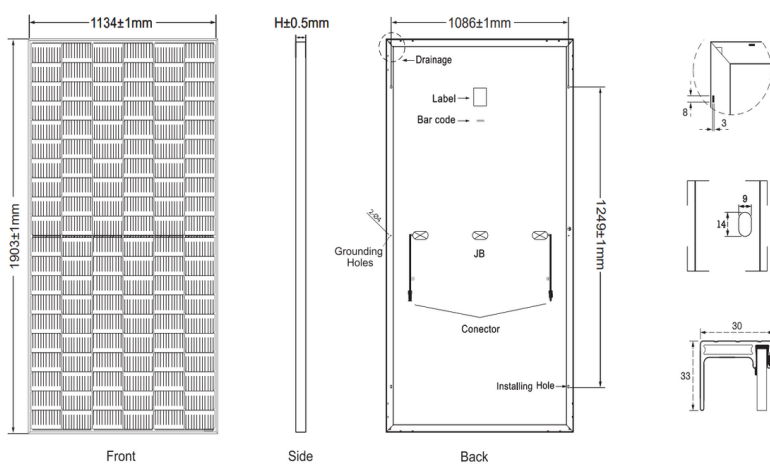
Temperature Performance Ratings

| | |
|---------------------------------------|-------------|
| Temperature coefficient (P_{max}) | -0.35 %/°C |
| Temperature coefficient (V_{oc}) | -0.28 %/°C |
| Temperature coefficient (I_{sc}) | +0.045 %/°C |
| Nominal operating cell temperature | 45±2 °C |

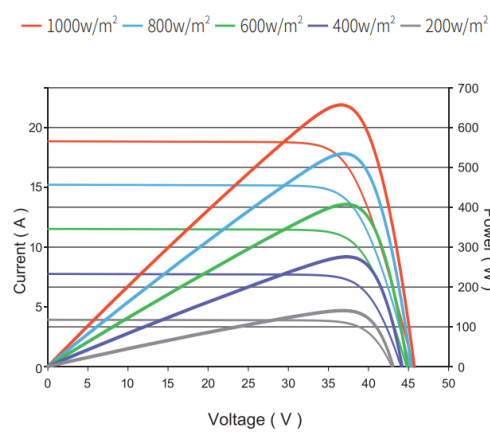
Packaging Configuration

| | |
|--------------------|------|
| Container | 40HQ |
| Quantity/pallet | 36 |
| Pallets/container | 24 |
| Quantity/container | 864 |

Module Dimensions (mm)



Current-Voltage & Power-Voltage Curves (460W)



Temperature Dependence of I_{sc} , V_{oc} , P_{max}

