



Tierra SERIES
SS-405-72MD

390-405W

High Efficiency Half-Cell Mono PERC Module



Half-cut cell technology
New circuit design,
lower internal current,
lower Rs loss



Special circuit design
with much lower hot spot
temperature



Fire safety
(Class C, certified to TÜV
Rheinland and Rheinland
test standards)



Resistance to power
attenuation passed TÜV
Rheinland system voltage
endurance test

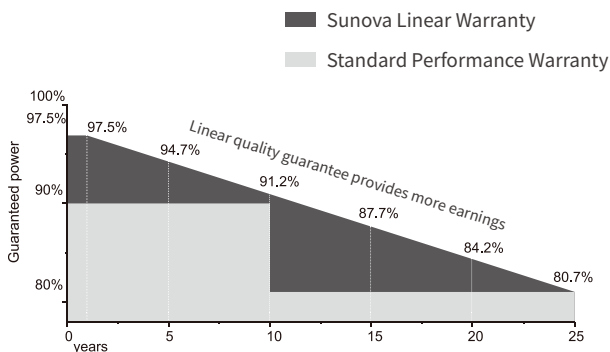


Resistance to salt-spray
corrosion
(IEC61701, certified to TÜV
Rheinland test standard)



100% double EL test
enabling remarkable
reduction of hidden crack
rate of modules

LINEAR PERFORMANCE WARRANTY



15 YEARS
Product quality
& process guarantee

25 YEARS
Linear power
guarantee

COMPREHENSIVE CERTIFICATES



ISO 9001: Quality Management System
ISO 14001: Environmental Management System Standard
OHSAS 18001: International Occupational Health and
Safety Assessment System Standard

PRODUCT INSURANCE



SS-405-72MD 144 cells

ELECTRIC CHARACTERISTICS

| Model of modules | SS-390-72MD SS-390-72MDH | | SS-395-72MD SS-395-72MDH | | SS-400-72MD SS-400-72MDH | | SS-405-72MD SS-405-72MDH | |
|--------------------------------------|-----------------------------|-------|-----------------------------|-------|-----------------------------|-------|-----------------------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum power — P_{mp} (W) | 390 | 295 | 395 | 299 | 400 | 303 | 405 | 306 |
| Open-circuit voltage — V_{oc} (V) | 48.11 | 45.48 | 48.23 | 45.61 | 48.42 | 45.80 | 48.71 | 46.08 |
| Short-circuit current — I_{sc} (A) | 10.63 | 8.52 | 10.70 | 8.58 | 10.77 | 8.63 | 10.84 | 8.69 |
| Maximum power voltage — V_{mp} (V) | 40.19 | 37.82 | 40.26 | 37.91 | 40.35 | 37.99 | 40.42 | 38.06 |
| Maximum power current — I_{mp} (A) | 9.71 | 7.80 | 9.82 | 7.89 | 9.92 | 7.98 | 10.04 | 8.04 |
| Module efficiency — η_m (%) | 19.38% | | 19.63% | | 19.88% | | 20.13% | |
| Power tolerance (W) | (0,+5) | | | | | | | |
| Maximum system voltage (V) | 1000V/1500V | | | | | | | |
| Maximum rated fuse current (A) | 15 | | | | | | | |
| 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) | 2008 x 1002 x 35mm |
| Weight | 21.5 kg |
| Number of half-cells | 144 cells (6x24) |
| Cell | PERC Monocrystalline 158.75x79.38mm |
| Glass | Tempered, 3.2mm AR, High transmittance, Low iron |
| Frame | Anodized aluminum alloy |
| Junction box | IP67 |
| Output wire | 4.0 mm ² , wire length: 1200mm or Customized Length |
| Connector | MC4 Compatible |
| Mechanical load | 5400 Pa |

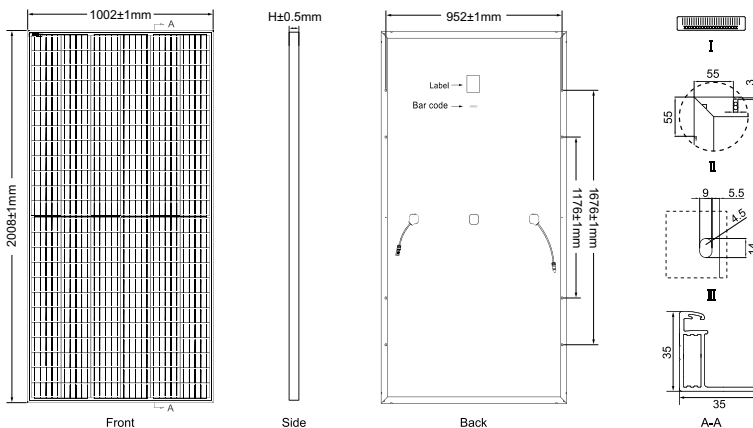
TEMPERATURE RATINGS

| | |
|---------------------------------------|-------------|
| Temperature coefficient (P_{max}) | -0.36 %/°C |
| Temperature coefficient (V_{oc}) | -0.28 %/°C |
| Temperature coefficient (I_{sc}) | +0.048 %/°C |
| Nominal operating cell temperature | 45±2 °C |

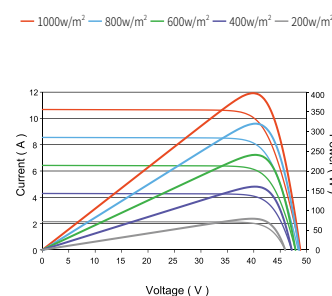
PACKAGING CONFIGURATION

| | | |
|--------------------|------|------|
| Container | 20GP | 40HQ |
| Quantity/pallet | 31 | 31 |
| Pallets/container | 10 | 22 |
| Quantity/container | 310 | 748 |

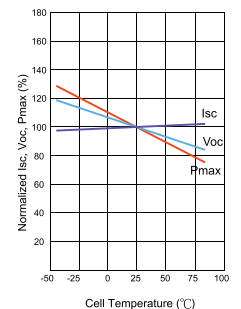
MODULE DIMENSIONS (mm)



Current-Voltage & Power-Voltage Curves (400W)



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



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* Sunova Solar Technology Co., Ltd reserves the right to make any adjustment to the information described herein without further notice. Please contact our company to use the latest version for contract.

