



HI-KILO

390-410W

High Efficiency 1/3-Cut 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

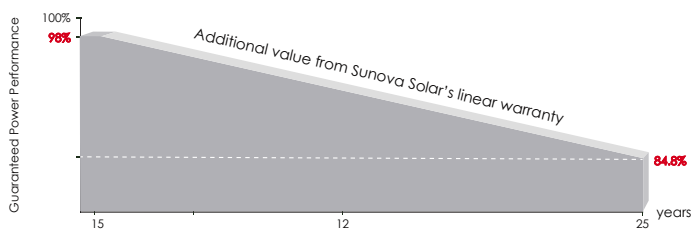


Resistance to salt-spray  
corrosion  
(IEC61701, certified to TÜV  
Rheinland test standard)



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

**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

## PRODUCT INSURANCE



# SS-410-40MTH-G12 120 cells

## ELECTRIC CHARACTERISTICS

| Model of modules                            | SS-390-40MTH-G12 |       | SS-395-40MTH-G12 |       | SS-400-40MTH-G12 |       | SS-405-40MTH-G12 |       | SS-410-40MTH-G12 |       |
|---------------------------------------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|                                             | STC              | NOCT  | STC              | NOCT  | STC              | NOCT  | STC              | NOCT  | STC              | NOCT  |
| Maximum power — P <sub>mp</sub> (W)         | 390              | 295   | 395              | 298   | 400              | 302   | 405              | 306   | 410              | 310   |
| Open-circuit voltage — V <sub>oc</sub> (V)  | 40.82            | 38.41 | 41.03            | 38.63 | 41.24            | 38.82 | 41.43            | 38.94 | 41.62            | 39.13 |
| Short-circuit current — I <sub>sc</sub> (A) | 12.14            | 9.78  | 12.21            | 9.84  | 12.28            | 9.90  | 12.34            | 9.95  | 12.41            | 10.01 |
| Maximum power voltage — V <sub>mp</sub> (V) | 33.84            | 31.83 | 34.01            | 32.02 | 34.22            | 32.21 | 34.41            | 32.54 | 34.65            | 32.74 |
| Maximum power current — I <sub>mp</sub> (A) | 11.53            | 9.27  | 11.62            | 9.32  | 11.69            | 9.38  | 11.77            | 9.41  | 11.84            | 9.47  |
| Module efficiency — η <sub>m</sub> (%)      | 20.3%            |       | 20.6%            |       | 20.8%            |       | 21.1%            |       | 21.3%            |       |
| Power tolerance (W)                         | (0,+5)           |       |                  |       |                  |       |                  |       |                  |       |
| Maximum system voltage (V)                  | 1500             |       |                  |       |                  |       |                  |       |                  |       |
| Maximum rated fuse current (A)              | 20               |       |                  |       |                  |       |                  |       |                  |       |
| Current operating temperature (°C )         | -40~+85 °C       |       |                  |       |                  |       |                  |       |                  |       |

**STC** (Standard Testing Conditions): Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

**NOCT** (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Spectra at AM1.5, Wind at 1 m/s

## STRUCTURAL CHARACTERISTICS

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Module dimensions (L*W*H) | 1754 x 1096 x 30 mm                                            |
| Weight                    | 21 kg                                                          |
| Number of cells           | 120 cells                                                      |
| Cell                      | PERC Monocrystalline 210x70 mm                                 |
| Glass                     | Tempered, 3.2 mm AR, High transmittance, Low iron              |
| Frame                     | Anodized aluminum alloy                                        |
| Junction box              | IP68                                                           |
| Output wire               | 4.0 mm <sup>2</sup> , wire length: 300 mm or Customized Length |
| Connector                 | MC4 Compatible                                                 |
| Mechanical load           | 5400 Pa                                                        |

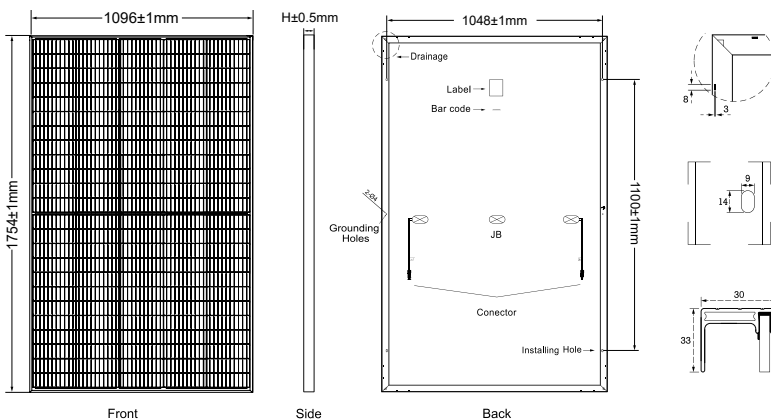
## TEMPERFORMANCE RATINGS

|                                       |            |
|---------------------------------------|------------|
| Temperature coefficient ( $P_{max}$ ) | -0.34 %/°C |
| Temperature coefficient ( $V_{oc}$ )  | -0.25 %/°C |
| Temperature coefficient ( $I_{sc}$ )  | +0.04 %/°C |
| Nomial operating cell temperature     | 43±2 °C    |

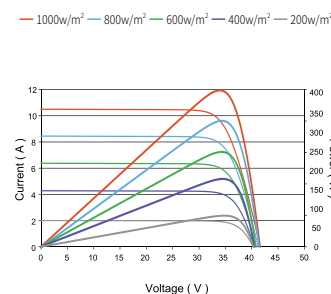
## PACKAGING CONFIGURATION

|                    |      |
|--------------------|------|
| Container          | 40HQ |
| Quantity/pallet    | 36   |
| Pallets/container  | 23   |
| Quantity/container | 936  |

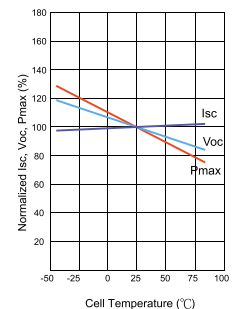
## MODULE DIMENSIONS (mm)



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



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



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