

*High-efficiency photovoltaic module using multicrystalline solar cells.*



### Performance

Rated power [P <sub>max</sub> ]	70W
Power tolerance	+10, -5%
Limited Warranty	20 years

### Electrical Performance under Standard Test Conditions(\*STC)

Maximum power [P <sub>max</sub> ]	70W
Open-circuit voltage [Voc]	22.1V
Short-circuit current [Isc]	4.34A
Maximum power voltage [Vpm]	18.6V
Maximum power current [Ipm]	3.80A
Maximum Series fuse rating	15A
Maximum system voltage	600VDC

\*STC : Irradiance 1000W/m<sup>2</sup>, AM1.5 spectrum, module temperature 25°C

### Electrical Performance at 800W/m<sup>2</sup>, NOCT\*, AM1.5

Maximum power [P <sub>max</sub> ]	51W
Open-circuit voltage [Voc]	20.5V
Short-circuit current [Isc]	3.39A
Maximum power voltage [Vpm]	17.1V
Maximum power current [Ipm]	2.96A

\*NOCT (Nominal Operating Cell Temperature) : 47°C

### Mechanical Characteristics

<b>Dimensions</b>	Length : 795mm    Width : 680mm    Depth : 38mm    (tolerance ± 2 mm)
<b>Weight</b>	7.0kg
<b>Solar Cells</b>	36cells in a 4 x 9 matrix connected in series
<b>Output Cables</b>	Cable with polarized weatherproof DC rated connectors; Cable length:1000mm (+ -)
<b>Construction</b>	Front: High-transmission 3.2mm low iron tempered glass; White back sheet Encapsulant; EVA
<b>Frame</b>	Anodized aluminum frame; Color: silver

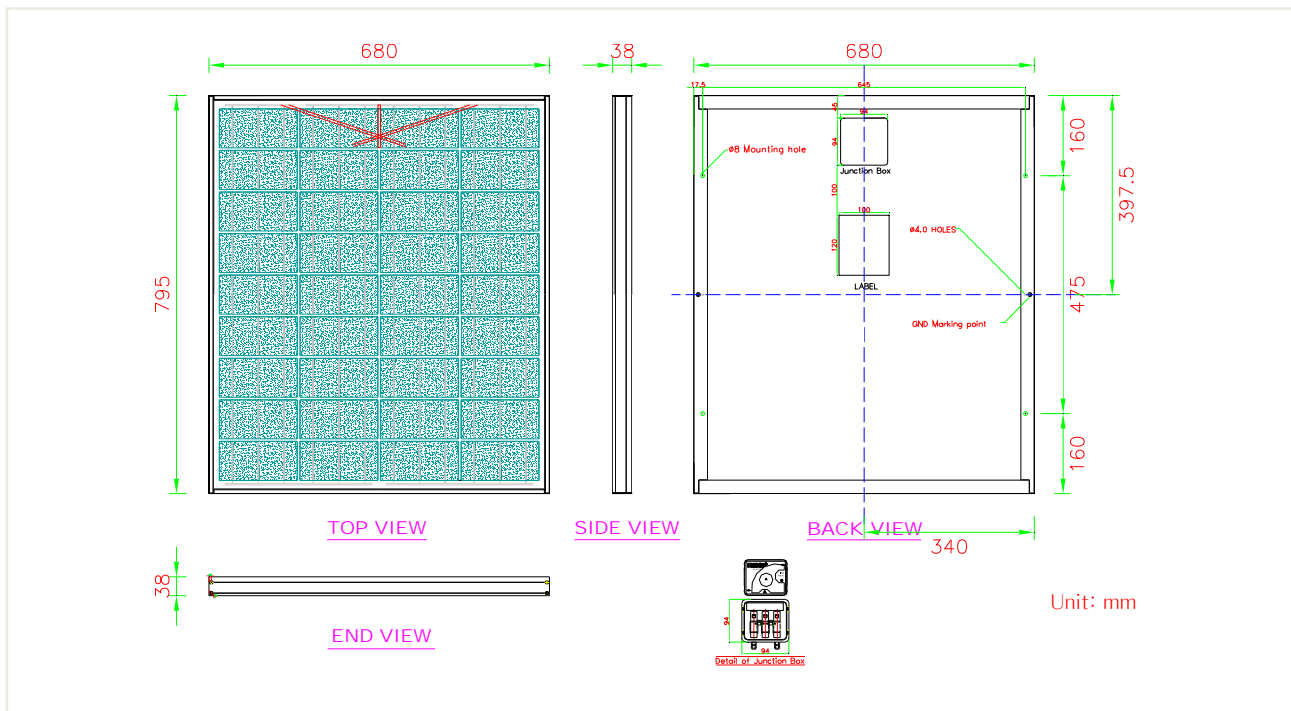
- Warrant : Power output for 20 years  
(10% of minimum output power per 10 years, 20% of minimum output power per 20 years).  
Free from defects in materials and workmanship for 3 years.
- These data represent the performance of typical SM-70KSM products, and are based on measurements made in accordance with ASTM E1038 corrected to SRC (STC)

## Qualification Test Parameters

Tests are proceeded by IEC 61215 standard.

Thermal cycling Range	-40°C to +85°C
Humidity Freeze, damp heat	-40°C to +85°C (85% RH), 85°C (85% RH)
Mechanical load	2400Pa
Hailstone impact	25mm at 23m/s
STC	1000W/m <sup>2</sup> ; 25°C ; AM 1.5

## Module Diagram



**NOTE :** This publication summarizes product warranty and specification, which are subject to change without notice