

# Sunny Apex

## 140W Solar Module

## High Efficiency Back-Contact

- ☉ Product is certified to IEC 61215 and 61730 by TÜV Nord
- Aesthetically using clear surface back-contact cells
- ☉ Cells with High conversion efficiency up to 23%
- Anodized aluminum improving corrosion resistance
- ☉ Excellent performance under low light conditions

✦ *Your best choice for off-grid solar application !* ✦



### Electrical Specifications

Model Type	SA-IH135	SA-IH140
Peak Power (Pmax)	135W	140W
Module Efficiency	15.70%	20.60%
Maximum Power Voltage (Vmp)	20.1V	20.6V
Maximum Power Current (Imp)	6.70A	6.73A
Open Circuit Voltage (Voc)	24.1V	24.7V
Short Circuit Current (Isc)	7.23A	7.50A
Power Tolerance	-5% / + 10%	
Maximum System Voltage	70V	
Normal Operating Cell Temp.	46 °C (+/- 2)	

### Mechanical Specifications

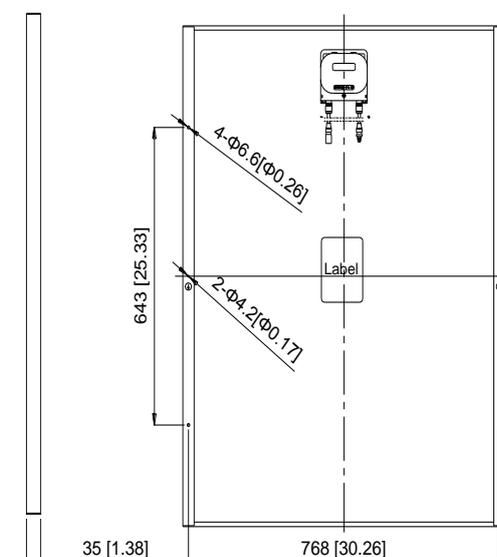
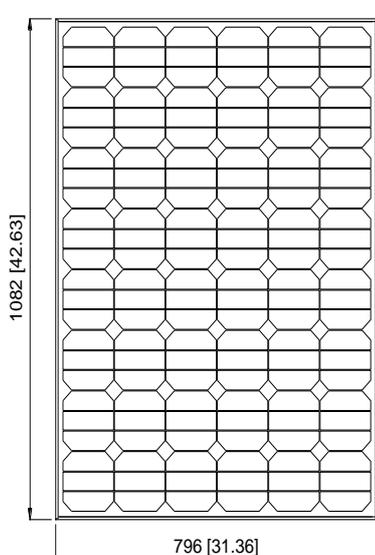
Cell type	Back contact high eff. Mono
Number of cells	Total 144 cells, 36 cells in series
Weight	12.25kg [27lbs]
Dimensions	1082 x 796 x 35 mm [42.60 x 31.34 x 1.38 in]
Frame	> 15µm clear anodized aluminum
Junction Box	Tyco (IP 65 waterproof)
Cables	4.00mm <sup>2</sup> , 1000mm
Connectors	MC4

### Temperature Coefficients

Power	-0.32%/ °C
Voltage	-1.8mV/ °C

### Warranties & Certifications

Warranties	5 years product warranty, 25 years limited power warranty of 80% of the minimum specified power rating
Certificates	IEC 61215 & 61730



Unit: mm [inch]

Note: All electrical parameters are rated at standard test conditions (irradiance of 1000W/m<sup>2</sup>, AM 1.5G, cell temperature 77°F/25°C)

Caution: Read Safety and Installation Instruction before using this product.

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