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**Solar Panel Guide**

**Specification Data Sheet**

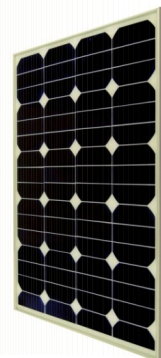
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## 70W Solar Module

## High Efficiency Back-Contact

- ☺ Sunny Apex's HOP series solar modules ranged from 35Watt to 155Watt
- Aesthetically using clear surface back-contact cells
- ☺ Cells with High conversion efficiency above 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-H70        | SA-H65 |
|-----------------------------|---------------|--------|
| Peak Power (Pmax)           | 70W           | 65W    |
| Module Efficiency           | 17.80%        | 16.50% |
| Maximum Power Voltage (Vmp) | 17.5V         | 17.5V  |
| Maximum Power Current (Imp) | 4.0A          | 3.72A  |
| Open Circuit Voltage (Voc)  | 21.3V         | 21.3V  |
| Short Circuit Current (Isc) | 4.4A          | 4.05A  |
| Power Tolerance             | -5% / + 10%   |        |
| Maximum System Voltage      | 70V           |        |
| Normal Operating Cell Temp. | 46 °C (+/- 2) |        |

### Mechanical Specifications

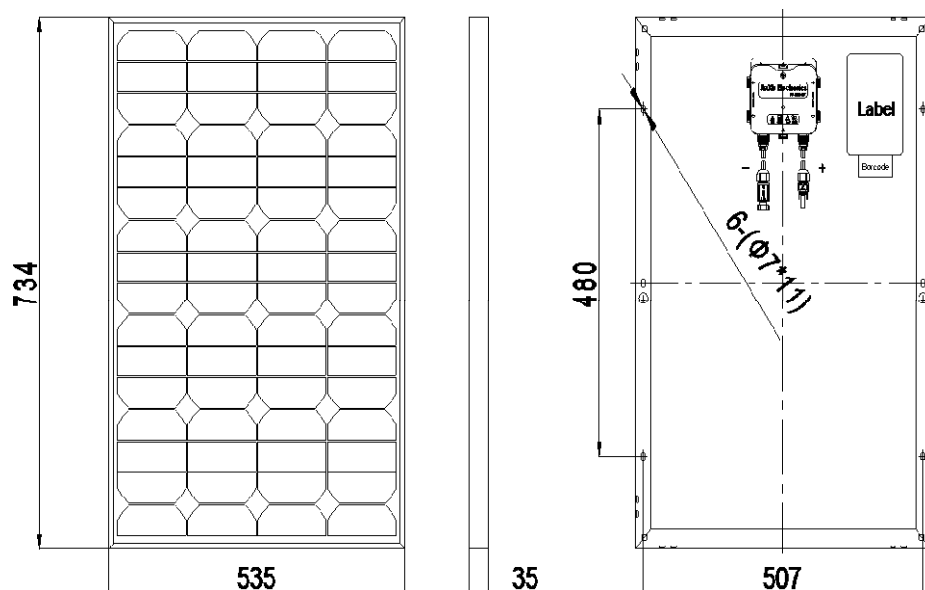
|                 |  |
|-----------------|--|
| Cell type       | Back contact high eff. Mono                  |
| Number of cells | Total 64 cells, 32 cells in series           |
| Weight          | 4.97kg [10.96lbs]                            |
| Dimensions      | 734 x 535 x 35mm<br>[28.92 x 21.08 x 1.38in] |
| Frame           | > 15μm clear anodized aluminum               |
| Junction Box    | IP 65 waterproof                             |
| Cables          | 4.00mm <sup>2</sup> , 900mm                  |
| Connectors      | MC4 compatible                               |

### Temperature Coefficients

|         |             |
|---------|-------------|
| Power   | -0.32% / °C |
| Voltage | -1.8mV / °C |

### Warranties & Certifications

|              |  |
|--------------|--|
| Warranties   | 2 years product warranty, 20 years limited power warranty of 80% of the minimum specified power rating |
| Certificates | CE   |



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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