

THINK-280

HIGH EFFICIENCY POLYCRYSTALLINE
PHOTOVOLTAIC MODULE



think
solarenergy

Product Features

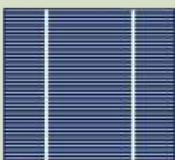
- High conversion efficiency based on leading innovative photovoltaic technologies.
- High reliability with guaranteed +3% power output tolerance, ensuring return on investment
- Attractive appearance
- Withstands high wind pressure and snow load, and extreme temperature variations
- Easy to install

Quality and Safety

- **10 years limited warranty of 90% power output, 25 year limited warranty of 80% power output, 72 months limited product warranty**
- Rigorous quality control meeting the highest international standards

Recommended Applications

- Residential rooftop systems
- On-grid utility systems
- On-grid commercial systems
- Off-grid PV systems
- Others



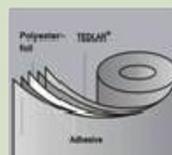
THINK's technology yield improvements to cells texturing, BSF structure and anti-reflective coatings to increase conversion efficiency



Unique design on drainage holes and rigid construction prevents frame from deforming or breaking due to freezing weather and other forces



The module provides more field power output through an advanced THINK solar glass, which transparency can reach 92%



The improved gloss of the Tedlar surface effects a special reflection to the solar radiation to increase conversion efficiency and resist weather and moisture

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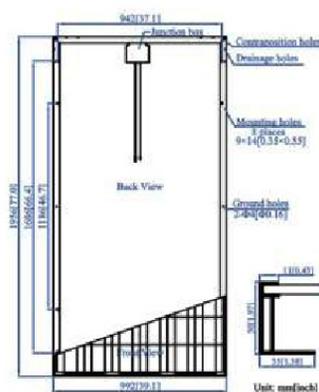
Electrical Characteristics

| Characteristics | THINK280 / 1948 X 995 X 50mm |
|-----------------------------|------------------------------|
| Maximum power (Pmax) | 280Wp |
| Voltage at Pmax (Vmp) | 36.58V |
| Current at Pmax (Imp) | 7.65A |
| Open-Circuit Voltage (Voc) | 43.92V |
| Short-Circuit Current (Isc) | 8.17A |
| Maximum System Voltage | DC600V |
| Maximum Series Fuse Rating | 15A |
| NOCT | 46+/-1%/°C |
| Power Tolerance | +3% |

Mechanical Characteristics

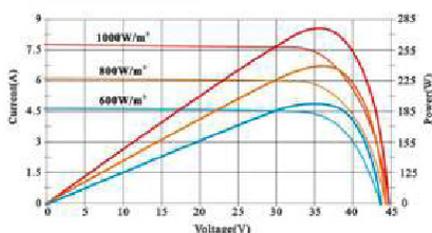
| | |
|-------------------|---|
| Solar Cell | 156 X 156mm (6.15" X 6.15") |
| No. of Cells | 72 (6X12) |
| Dimensions | 1948X995X50mm |
| Weight | 23.0kg |
| Construction | Front side: High transmission 3.2mm tempered glass Back side: Tedlar, white Encapsulation :EVA |
| Junction Box | IP 65 Rated MC4 4.0mm ² , lengths (+-) |
| Output-Cables | 900mm, Quick connectors IP 65 rated |
| Frame | Clear anodized aluminum alloy type 6063T6 frame; Color: Silver |
| Efficiency Module | 14.5% |

Module Diagram



Characteristics

Module IV Graph 280W



Temperature Coefficients

| | |
|---------------------------------|-------------|
| Temperature Coefficient of Pmax | -0.48% / °C |
| Temperature Coefficient of Voc | -0.36% / °C |
| Temperature Coefficient of Isc | 0.033% / °C |

Qualification Test Parameters

| | |
|------------------|--------------------------------|
| Temperature | -40°C to +90°C |
| Max Load | 50psf (2400 pascals) |
| Hailstone impact | 25mm (1 inch) at 23m/s (52mph) |