

THINK-280

HIGH EFFICIENCY POLYCRYSTALLINE
PHOTOVOLTAIC MODULE



think
solarenergy

Product Features

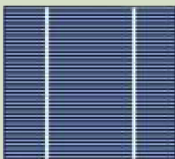
- High conversion efficiency based on leading innovative photovoltaic technologies.
- High reliability with guaranteed +3% power output tolerance, ensuring return on investment
- Attractive appearance
- Withstands high wind pressure and snow load, and extreme temperature variations
- Easy to install

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



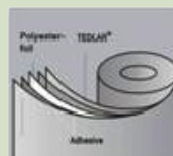
THINK's technology yield improvements to cells texturing, BSF structure and anti-reflective coatings to increase conversion efficiency



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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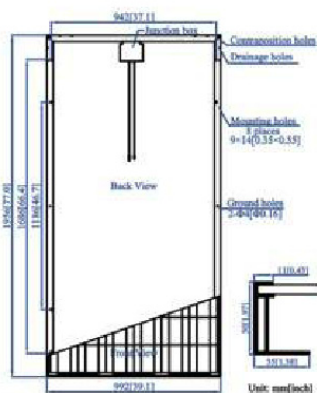
Electrical Characteristics

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

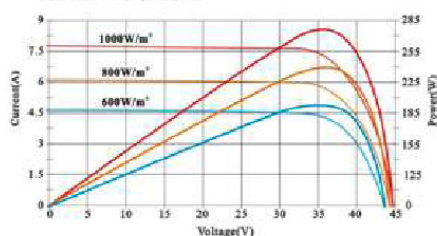
Solar Cell	156 X 156mm (6.15" X 6.15")
No. of Cells	72 (6X12)
Dimensions	1948X995X50mm
Weight	23.0kg
Construction	Front side: High transmission 3.2mm tempered glass Back side: Tedlar, white Encapsulation :EVA
Junction Box	IP 65 Rated MC4 4.0mm ² , lengths (+-)
Output-Cables	900mm, Quick connectors IP 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)