



* Concept Drawing



Polycrystal Solar Cell Modules
HTM270/275/280/285/290
PA-60

Reliable Quality

- 0~+3% positive tolerance output warranty
- EL full inspection for twice effectively eliminates defects of products
- Optimize module current profile, improve system-side power generation

Comprehensive Product and System Certification

- ISO 9001:2015 Quality Management Systems
- ISO 14001:2015 Environmental Management Systems
- OHSAS 18001:2007 Occupational Health and Safety Management Systems



Module Characteristics



5 Busbar Photovoltaic Cells

5 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation



High Output Power

Polycrystalline 60-cell module achieves a power output up to 290W



Anti-PID Characteristics

Ensure large-scale production polycrystal module pass PID test



Low-light Performance

High-transmittance glass and surface texturing allow for excellent performance in low-light environment



Load Capacity

Entire module certified to withstand high wind loads (2400 Pascal) and snow loads (5400 Pascal)

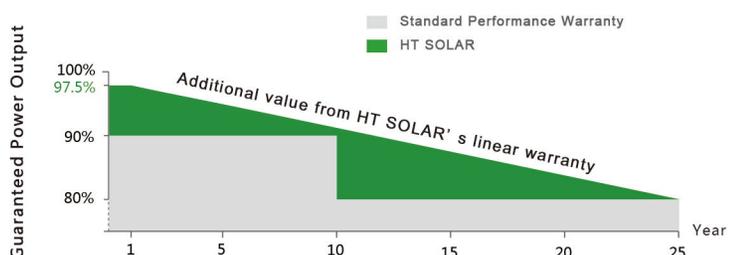


Harsh Environment Adaptation

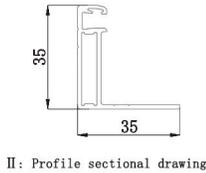
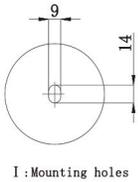
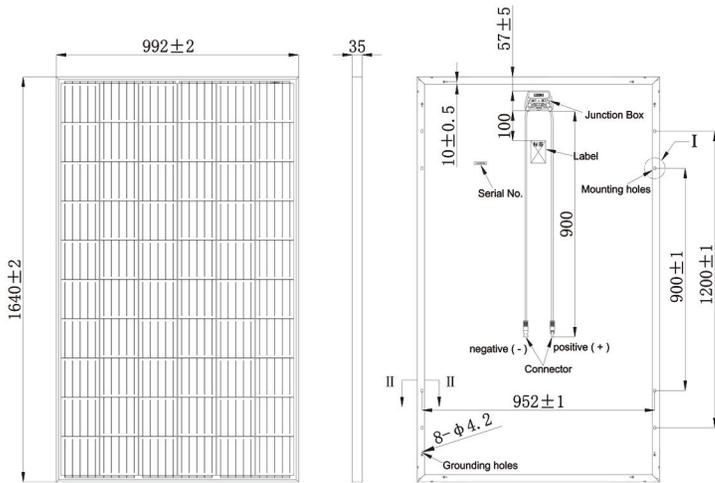
High salt mist and ammonia resistance certified by TUV NORD

Industry-leading Linear Power Warranty

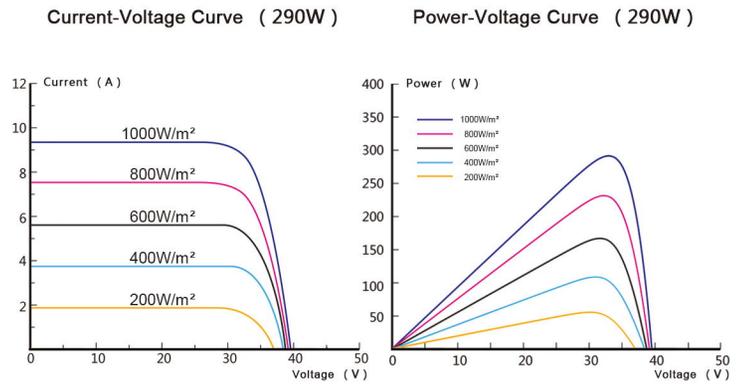
10-year product warranty•25-year linear power warranty



Module Dimensions(mm)



I-V Curve



Structure Parameter

| | |
|-------------------|---|
| Cell Type | 156.75x156.75mm Polycrystal |
| Cell Orientation | 60 (6x10) |
| Module Dimensions | 1640x992x35mm |
| Weight | 18.5kg |
| Front Cover | 3.2mm high transmittance, reinforced glass |
| Back Sheet | Anti-aging film |
| Frame Material | Anodized aluminum alloy |
| Junction Box | Protection class IP67 |
| Cable | 4.0mm ² photovoltaic special cable |
| Connector | MC4 compatible connector |

Packaging Capacity

Each box capacity: 30 pcs

Container load capacity per 40 feet: 840 pcs

Electric Characteristics

| Module Type | HTM270PA-60 | | HTM275PA-60 | | HTM280PA-60 | | HTM285PA-60 | | HTM290PA-60 | |
|--|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| | STC | NOCT |
| Test Conditions | | | | | | | | | | |
| Maximum Output Power(Pm) | 270W | 200W | 275W | 203W | 280W | 207W | 285W | 211W | 290W | 215W |
| Maximum Power Voltage(Vmp) | 31.15V | 29.37V | 31.40V | 29.52V | 31.75V | 29.79V | 32.10V | 30.06V | 32.44V | 30.33V |
| Maximum Power Current(Imp) | 8.67A | 6.81A | 8.76A | 6.88A | 8.82A | 6.95A | 8.88A | 7.02A | 8.94A | 7.09A |
| Open-circuit Voltage(Voc) | 38.19V | 36.24V | 38.55V | 36.51V | 38.91V | 36.97V | 39.27V | 37.43V | 39.69V | 37.89V |
| Short-circuit Current(Isc) | 9.17A | 7.26A | 9.23A | 7.31A | 9.30A | 7.36A | 9.37A | 7.41A | 9.44A | 7.46A |
| Module Conversion Efficiency(STC) | 16.60% | | 16.90% | | 17.21% | | 17.52% | | 17.83% | |
| Maximum System Voltage | 1000V/1500V | | | | | | | | | |
| Operating Temperature | -40°C~+85°C | | | | | | | | | |
| Temperature Coefficient(Pm) | -0.394%/°C | | | | | | | | | |
| Temperature Coefficient(Voc) | -0.307%/°C | | | | | | | | | |
| Temperature Coefficient(Isc) | 0.04%/°C | | | | | | | | | |
| Cell Rated Operating Temperature(NOCT) | 45±2°C | | | | | | | | | |

STC : ☀️ Light intensity 1000W/m² 🌡️ Module temperature : 25°C 🌫️ Air quality : AM1.5

NOCT : ☀️ Light intensity 800W/m² 🌡️ Environment temperature : 20°C 🌫️ Air quality : AM1.5 🌬️ Wind speed : 1m/s