



* Concept Drawing



Monocrystal Solar Cell Modules

HTM285/290/295/300/305/ 310/315MA-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

Monocrystalline 60-cell module achieves a power output up to 315W



Anti-PID Characteristics

Ensure large-scale production monocrystal module pass PID test



Low-Light Performance

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



Load Capacity

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)

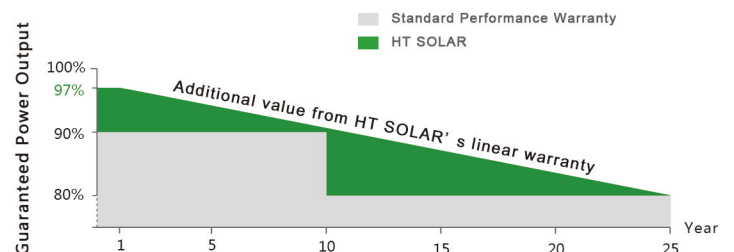


Harsh Environment Adaptation

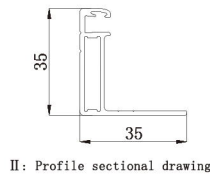
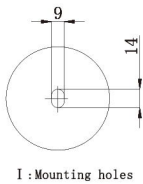
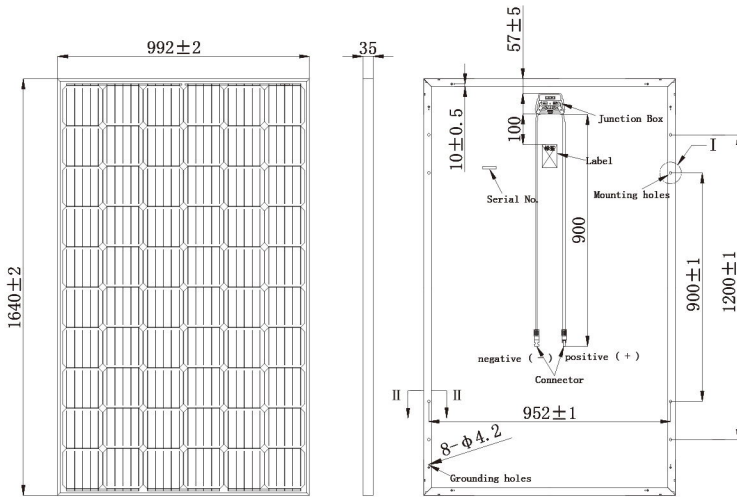
High salt mist and ammonia resistance certified by TUV NORD

Industry-leading Linear Power Warranty

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



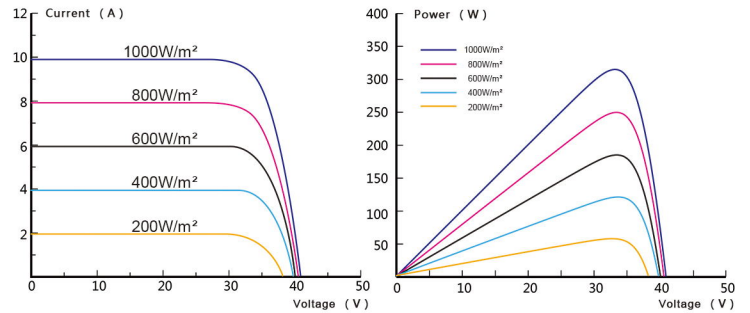
Module Dimensions(mm)



I-V Curve

Current-Voltage Curve (315W)

Power-Voltage Curve (315W)



Structure Parameter

Cell Type	156.75x156.75mm Monocrystal
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	HTM285MA-60		HTM290MA-60		HTM295MA-60		HTM300MA-60		HTM305MA-60		HTM310MA-60		HTM315MA-60	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Conditions														
Maximum Output Power(P _m)	285W	210W	290W	214W	295W	218W	300W	222W	305W	226W	310W	229W	315W	232W
Maximum Power Voltage(V _{mp})	31.81V	29.42V	32.10V	29.60V	32.35V	29.87V	32.65V	30.12V	32.91V	30.42V	33.25V	30.66V	33.55V	30.90V
Maximum Power Current(I _{mp})	8.96A	7.15A	9.05A	7.23A	9.12A	7.30A	9.20A	7.38A	9.27A	7.43A	9.33A	7.47A	9.39A	7.51A
Open-circuit Voltage(V _{oc})	38.85V	36.01V	39.15V	36.45V	39.48V	36.89V	39.84V	37.21V	40.15V	37.62V	40.63V	37.85V	40.91V	38.13V
Short-circuit Current(I _{sc})	9.51A	7.61A	9.58A	7.65A	9.65A	7.68A	9.72A	7.75A	9.79A	7.80A	9.85A	7.85A	9.91A	7.90A
Module Conversion Efficiency(STC)	17.52%		17.83%		18.13%		18.44%		18.75%		19.05%		19.36%	
Maximum System Voltage	1000V/1500V													
Operating Temperature	-40°C~+85°C													
Temperature Coefficient(P _m)	-0.393%/°C													
Temperature Coefficient(V _{oc})	-0.31%/°C													
Temperature Coefficient(I _{sc})	0.041%/°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