

Monocrystal Solar Cell Modules
HTM280/285/290/295/300
MA-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



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 300W



Anti-PID Characteristics

Ensure large-scale production monocrystal module pass PID test



Low-Light Performance

Advanced glass and surface texturing allow for excellent performance in low-light environments



Load Capacity

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

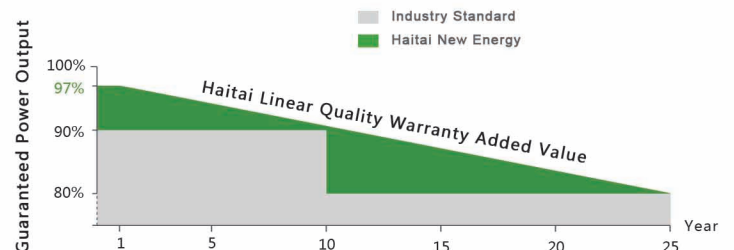


Harsh Environment Adaptation

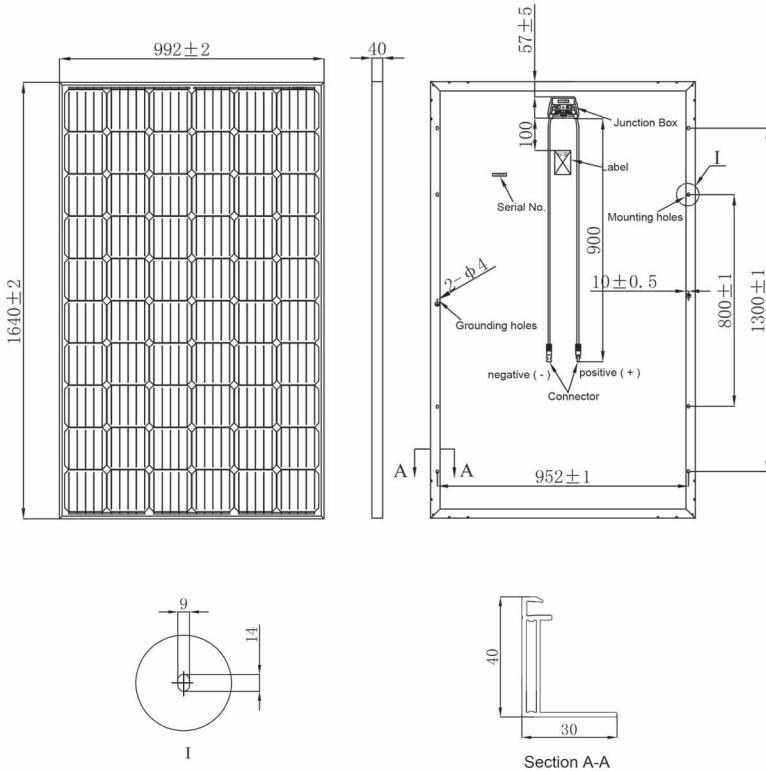
High salt mist and ammonia resistance certified by TUV NORD

Industry-leading Linear Quality Warranty

10-year material technology quality warranty • 25-year linear quality warranty



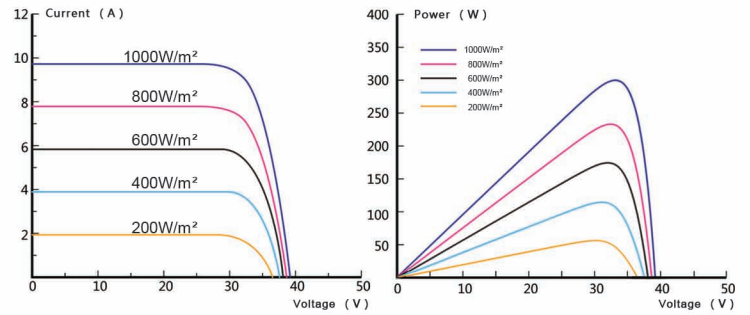
Module Dimensions(mm)



I-V Curve

Current-Voltage Curve (300W)

Power-Voltage Curve (300W)



Structure Parameter

Cell Type	156.75x156.75mm Monocrystal
Cell Orientation	60 (6x10)
Module Dimensions	1640x992x40mm
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: 26 pcs

Container load capacity per 40 feet: 728 pcs

Electric Characteristics

Module Type	HTM280MA-60		HTM285MA-60		HTM290MA-60		HTM295MA-60		HTM300MA-60	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Conditions										
Maximum Output Power(Pm)	280W	207W	285W	210W	290W	214W	295W	218W	300W	222W
Maximum Power Voltage(Vmp)	31.50V	29.20V	31.81V	29.42V	32.10V	29.60V	32.35V	29.87V	32.65V	30.12V
Maximum Power Current(Imp)	8.89A	7.09A	8.96A	7.15A	9.05A	7.23A	9.12A	7.30A	9.20A	7.38A
Open-circuit Voltage(Voc)	38.52V	35.86V	38.85V	36.01V	39.15V	36.45V	39.48V	36.89V	39.84V	37.21V
Short-circuit Current(Isc)	9.43A	7.54A	9.51A	7.61A	9.58A	7.65A	9.65A	7.68A	9.72A	7.75A
Module Conversion Efficiency(STC)	17.21%		17.52%		17.83%		18.13%		18.44%	
Maximum System Voltage	1000V									
Operating Temperature	-40°C~+85°C									
Temperature Coefficient(Pm)	-0.393%/°C									
Temperature Coefficient(Voc)	-0.31%/°C									
Temperature Coefficient(Isc)	0.041%/°C									
Cell Rated Operating Temperature(NOCT)	45±2°C									

STC : ☀️ Light intensity 1000W/m² 🌡️ Environment temperature : 25°C 🌫️ Air quality : AM1.5
 NOCT : ☀️ Light intensity 800W/m² 🌡️ Environment temperature : 20°C 🌫️ Air quality : AM1.5 🌬️ Wind speed : 1m/s