

High-Efficiency PERC Monocrystal Solar Cell Modules
HTM290/295/300/305/310
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 PERC High-Efficiency PV Cell

Adpot backside passivation (PERC) technology for higher power output; more uniform current collection capability, reduces current heat loss of module's internal cell



High Output Power

Monocrystal 60-cell module achieves a power output up to 310W



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

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

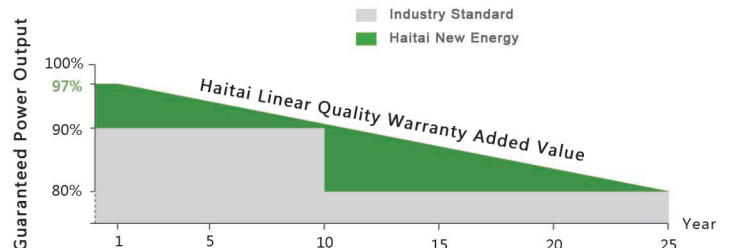


Harsh Environment Adaptation

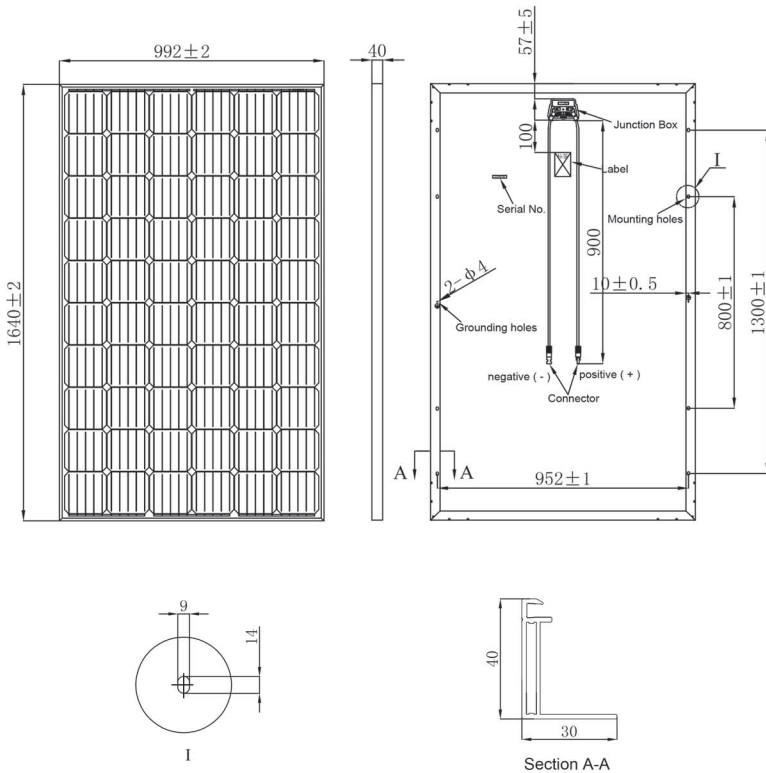
High salt mist and ammonia resistance certified by TUV NORD

Industry-leading Linear Quality Warranty

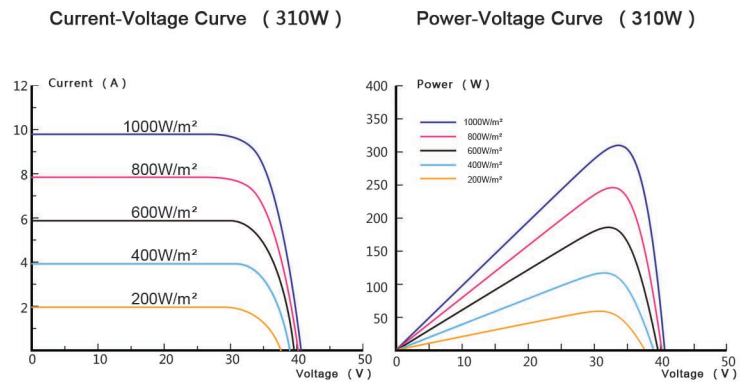
10-year material technology quality warranty • 25-year linear quality warranty



Module Dimensions(mm)



I-V Curve



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	4.0mm² 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	HTM290MA-60		HTM295MA-60		HTM300MA-60		HTM305MA-60		HTM310MA-60	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Conditions										
Maximum Output Power(Pm)	290W	214W	295W	218W	300W	222W	305W	226W	310W	229W
Maximum Power Voltage(Vmp)	32.10V	29.60V	32.35V	29.87V	32.65V	30.12V	32.91V	30.42V	33.25V	30.66V
Maximum Power Current(Imp)	9.05A	7.23A	9.12A	7.30A	9.20A	7.38A	9.27A	7.43A	9.33A	7.47A
Open-circuit Voltage(Voc)	39.15V	36.45V	39.48V	36.89V	39.84V	37.21V	40.15V	37.62V	40.63V	37.85V
Short-circuit Current(Isc)	9.58A	7.65A	9.65A	7.68A	9.72A	7.75A	9.79A	7.80A	9.85A	7.85A
Module Conversion Efficiency(STC)	17.83%		18.13%		18.44%		18.75%		19.05%	
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



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