



Normal SERIES

HTM 280~290 MA-60

HTM 305~320 MA-60

MONOCRYSTALLINE SILICON PV MODULES



HIGH OUTPUT POWER

Monocrystalline 60-cell modules achieve power output up to 320W



ANTI-PID CHARACTERISTICS

Ensure large-scale production monocrystalline modules pass PID test



LOW-LIGHT PERFORMANCE

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



LOAD CAPACITY

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

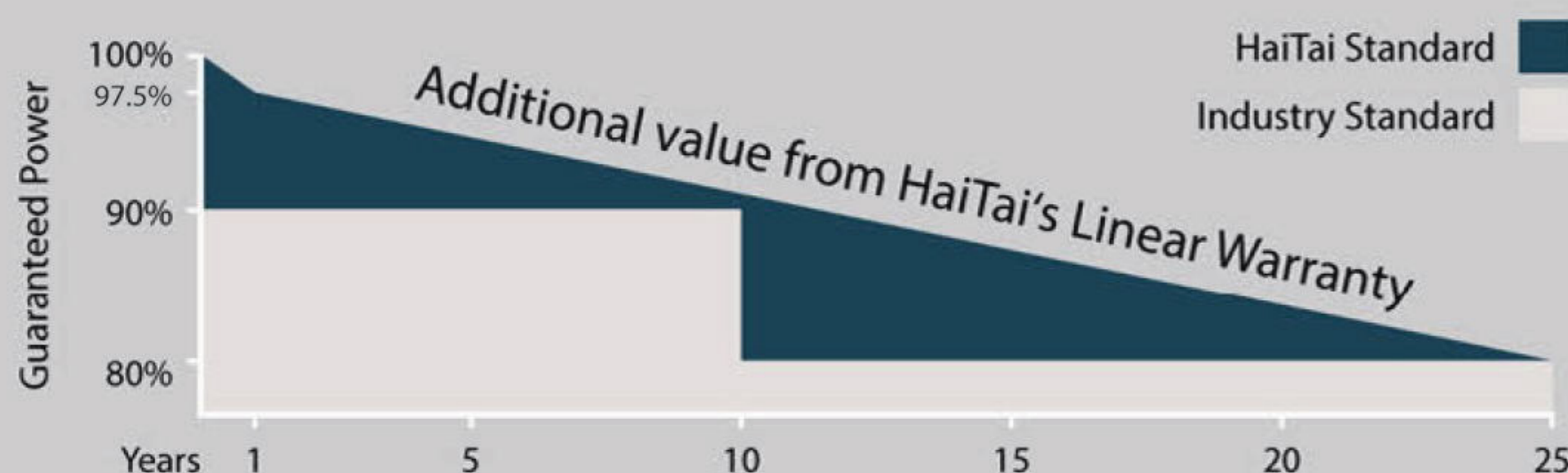


HARSH ENVIRONMENT ADAPTATION

High salt mist and ammonia resistance certified by TUV

LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



Mechanical Data

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

HTM 280~290 MA-60 HTM 305~320 MA-60

MONOCRYSTALLINE SILICON PV MODULES

Electrical Data (STC)

Maximum Power (Pmax/W)	280	285	290	305	310	315	320
Voltage at Maximum Power (Vmp/V)	31.50	31.81	32.10	32.91	33.25	33.55	33.87
Current at Maximum Power (Imp/A)	8.89	8.96	9.05	9.27	9.33	9.39	9.45
Open Circuit Voltage (Voc/V)	38.52	38.85	39.15	40.15	40.63	40.91	41.30
Short Circuit Current (Isc/A)	9.43	9.51	9.58	9.79	9.85	9.91	9.97
Module Efficiency (%)	17.21	17.52	17.83	18.75	19.05	19.36	19.67

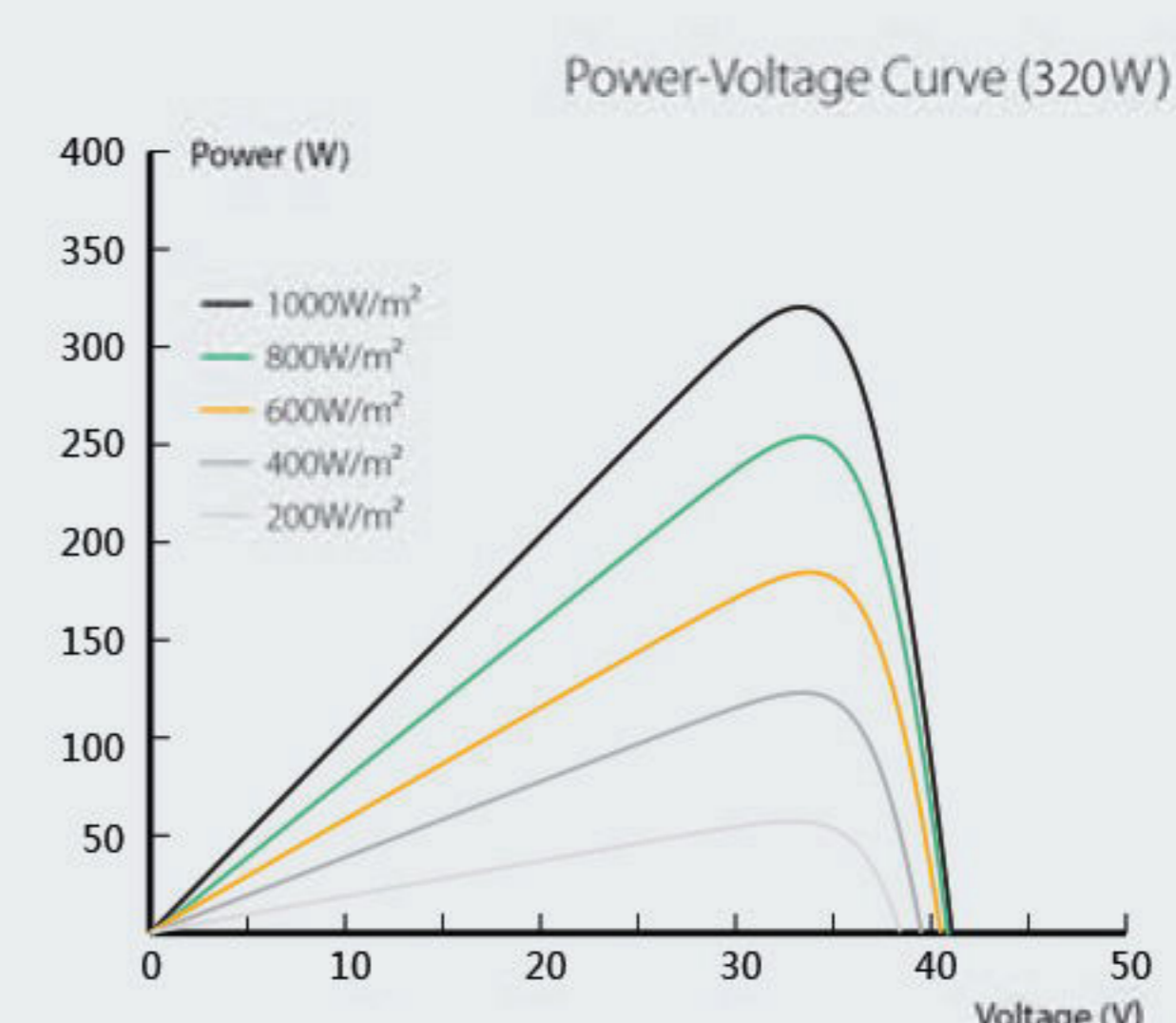
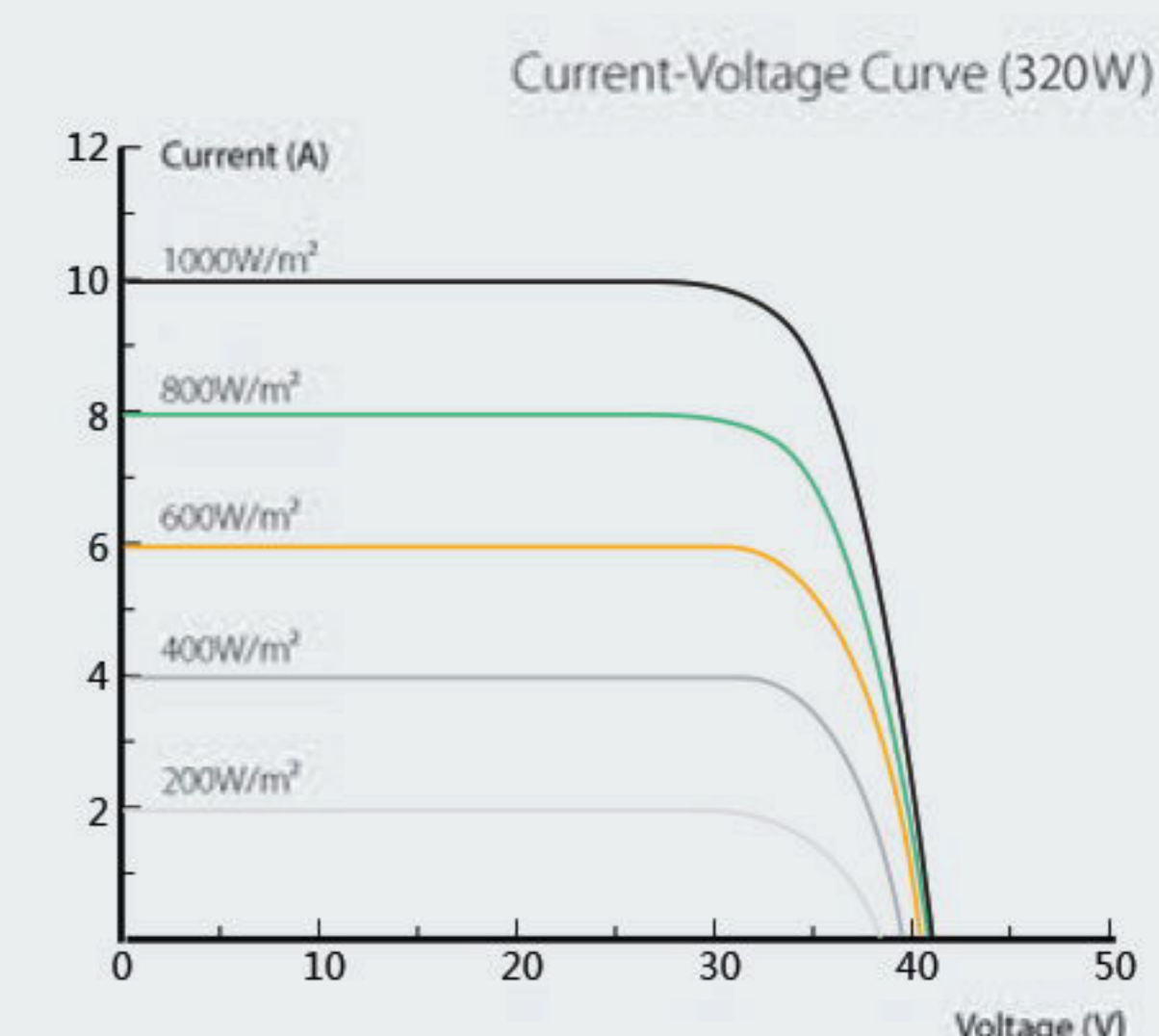
Electrical Data (NMOT)

Maximum Power (Pmax/W)	207	210	214	226	229	232	235
Voltage at Maximum Power (Vmp/V)	29.20	29.42	29.60	30.42	30.66	30.90	31.14
Current at Maximum Power (Imp/A)	7.09	7.15	7.23	7.43	7.47	7.51	7.55
Open Circuit Voltage (Voc/V)	35.86	36.01	36.45	37.62	37.85	38.13	38.40
Short Circuit Current (Isc/A)	7.54	7.61	7.65	7.80	7.85	7.90	7.95

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

NMOT (Nominal Module Operating Temperature): Ambient Temperature 20°C, Wind Speed 1m/s.

I-V Curve



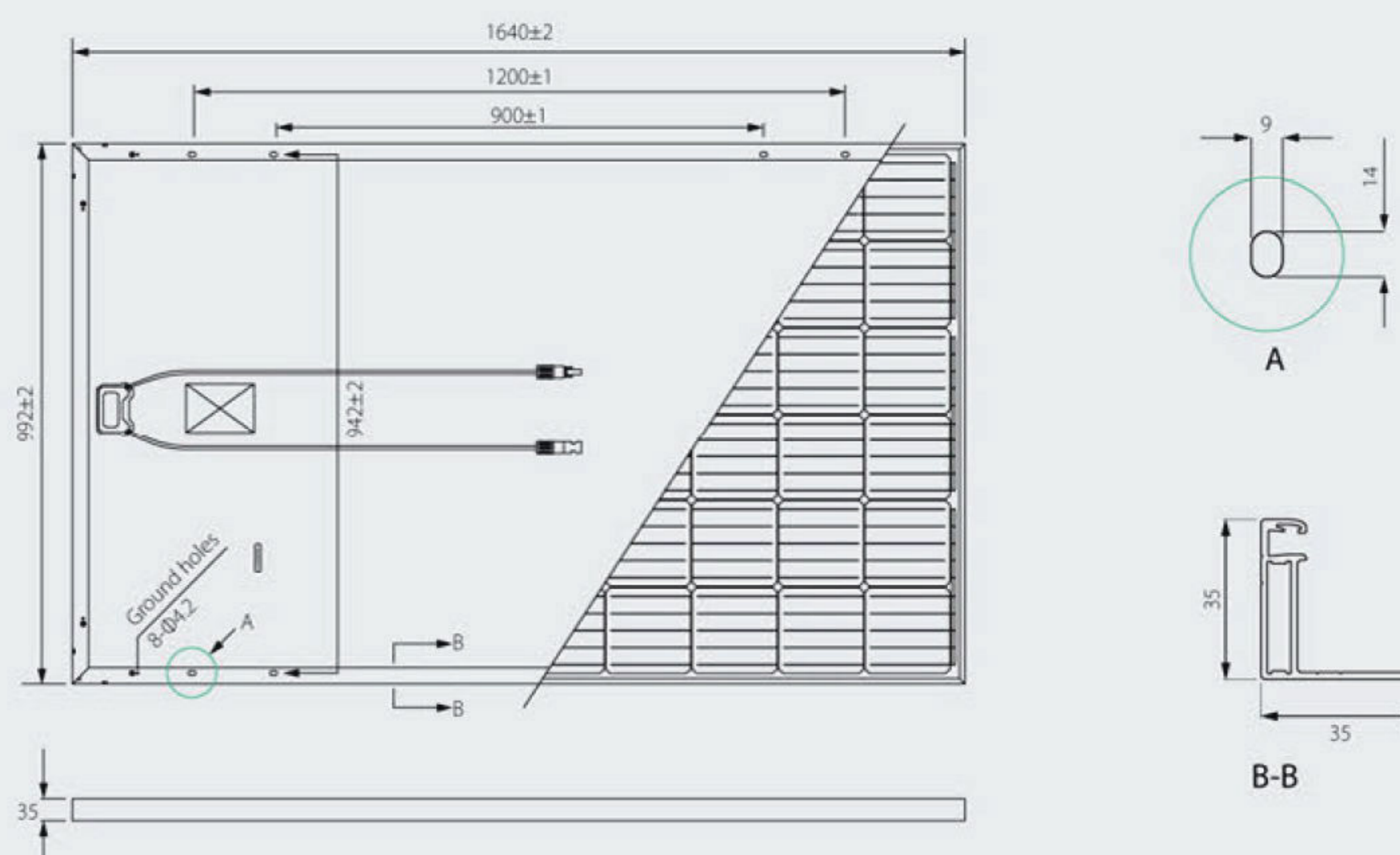
Temperature

Temperature Coefficient (Pm)	-0.393%/°C
Temperature Coefficient (Voc)	-0.310%/°C
Temperature Coefficient (Isc)	0.041%/°C

Operating Parameters

Maximum System Voltage	1000/1500V
Operating Temperature	-40°C~+85°C
NMOT (Nominal Module Operating Temperature)	41±3°C

Module Dimensions (mm)



Packaging

Modules Per Pallet:	31+31+4 pcs
Modules Per 40'HQ Container:	924 pcs



Tangshan Haitai New Energy Technology Co., Ltd

Add : No.88, Haomen Road, Yutian County, Tangshan City, Hebei Province, China

Tel : +86-315-5051826 Email : ht@htsolargroup.com

Website : www.htsolar.com