

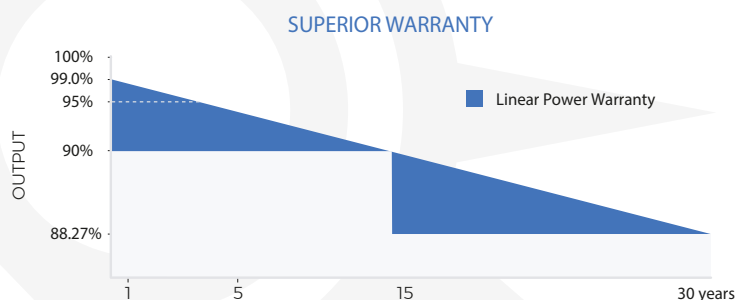
HELIUS HYPERION

HJT TECHNOLOGY

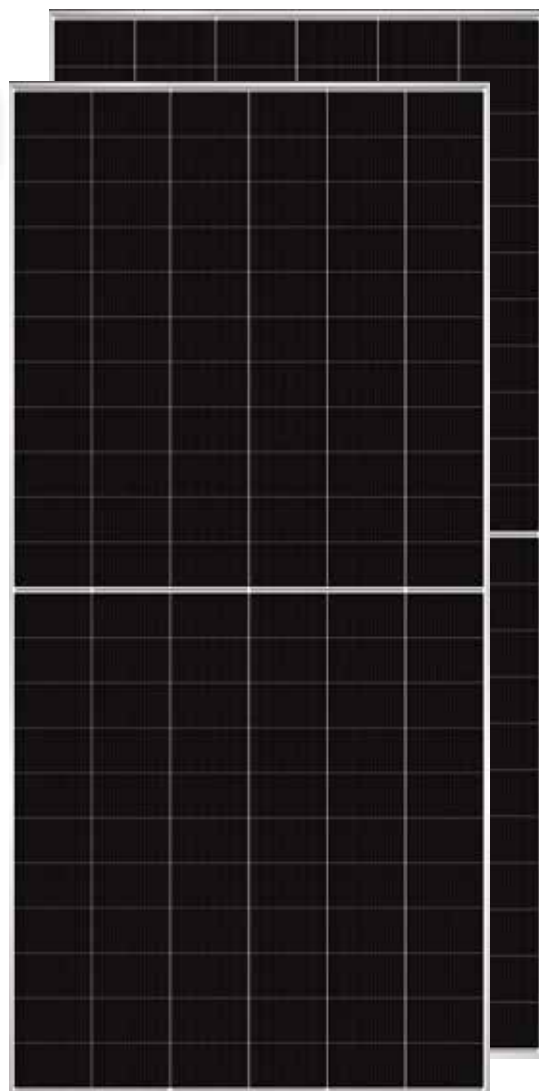
HMB132H12
690W - 710W
Bifacial

30-year linear power output warranty

15-years product warranty



INMETRO, IEC 61215, IEC 61730, IEC TS 62804, IEC 61701
ISO 9001:2008 - ISO 14001:2004 - OSHAS 18001:2007



SUPERIOR QUALITY

With HJT technology and half cell design, Helius Sunlink PV panels reduce the number of cell busbars and improve current collection ability on cloudy days.



HIGH EFFICIENCY AND POWER DENSITY

High conversion efficiency and up to 710 W.
More gain power per square meter.



PERFORMANCE WARRANTY

With up to 30 years of solar generation, Helius Sunlink PV warranty can guarantee the longevity of your project.



FIRE-PROOF PERFORMANCE

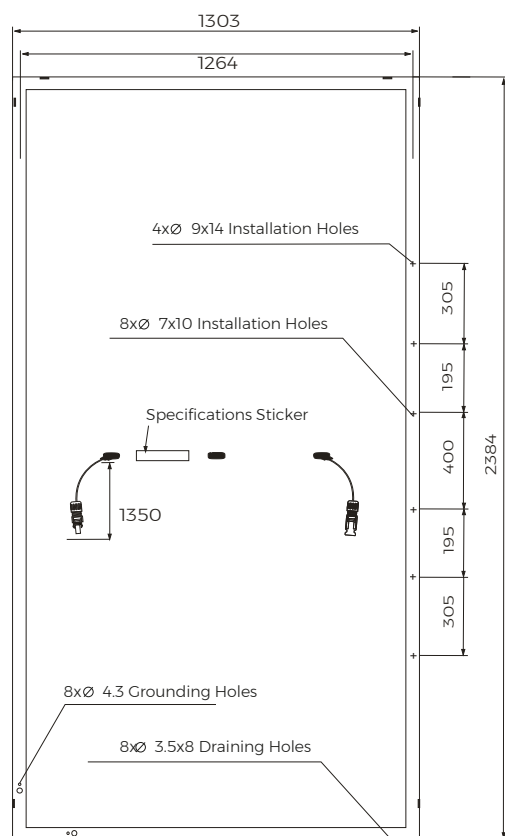
Modules are approved and tested under IEC 61730 and Class C Fire Test.



LIGHT AND RELIABLE

Much lighter modules with thicker frames to ensure module resilience. Modules could be applied under ammonia, salt mist, high temperature, high humidity condition.

TECHNICAL DIMENSIONS (MM)

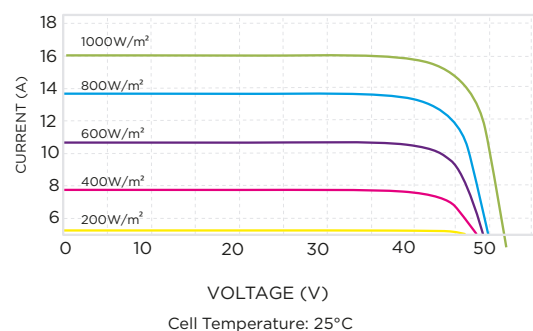


MECHANICAL CHARACTERISTICS

Dimensions	2384 x 1303 x 33mm
Solar Cells	132 Monocrystalline Heterojunction Cells
Weight	38.3 kg
Frame	Anodized Aluminium Alloy
Frontal Glass	2mm High Transmission , Low Iron Tempered
Back Glass	2mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm / Length 1350mm or Customized

TEMPERATURE CHARACTERISTICS

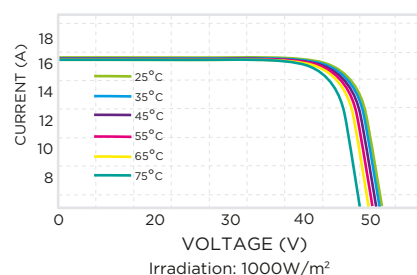
Temperature Coefficient I_{sc}	0.045% / °C
Temperature Coefficient V_{oc}	-0.24% / °C
Temperature Coefficient P_{max}	-0.26% / °C
Nominal Module Operating Temperature NMOT	43°C $\pm$ 3°C
Operational Temperature	-40°C $\pm$ +85°C



ELECTRICAL CHARACTERISTICS

HMB132H12	690HL	695HL	700HL	705HL	710HL
Maximum Power P_{Max} (W)	690	695	700	705	710
Maximum Power Voltage V_{mp} (V)	41.80	41.95	42.10	42.25	42.40
Maximum Power Current I_{mp} (A)	16.51	16.57	16.63	16.69	16.75
Open Circuit Voltage V_{oc} (V)	49.70	49.85	50.00	50.15	50.30
Short Circuit Current I_{sc} (A)	17.31	17.37	17.43	17.49	17.55
Module Efficiency	22.2%	22.4%	22.5%	22.7%	22.9%
Maximum System Voltage	1500VCC				
Maximum Series Fuse	35A				

Test Conditions: 1000W/m², 25°C, AM =1.5



ELECTRICAL CHARACTERISTICS WITH REAR POWER GAIN (700W)

P_{max} Gain (%)	10%	20%	30%
Maximum Power P_{Max} (W)	770	840	910
Maximum Power Voltage V_{mp} (V)	42.10	42.10	42.10
Maximum Power Current I_{mp} (A)	18.29	19.95	21.61

PACKAGING CONFIGURATION

Modules per Container 40HQ	594 pcs
Pallets per Container 40HQ	18
Modules per Pallet	33
Pallet Dimensions	1320 x 1125 x 2520mm
Gross Weight per Pallet (kg)	1289

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