

# HELIUS HYPERION

## HJT TECHNOLOGY

**HMB132H12**

**690W - 710W**

**Bifacial**

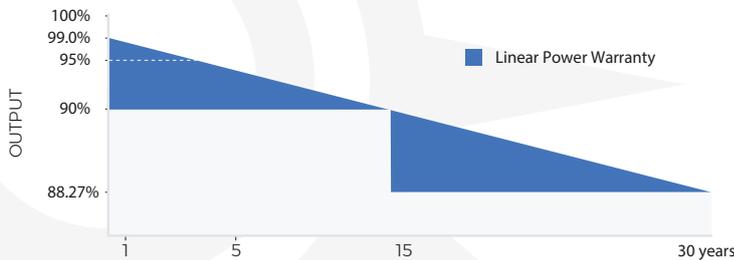
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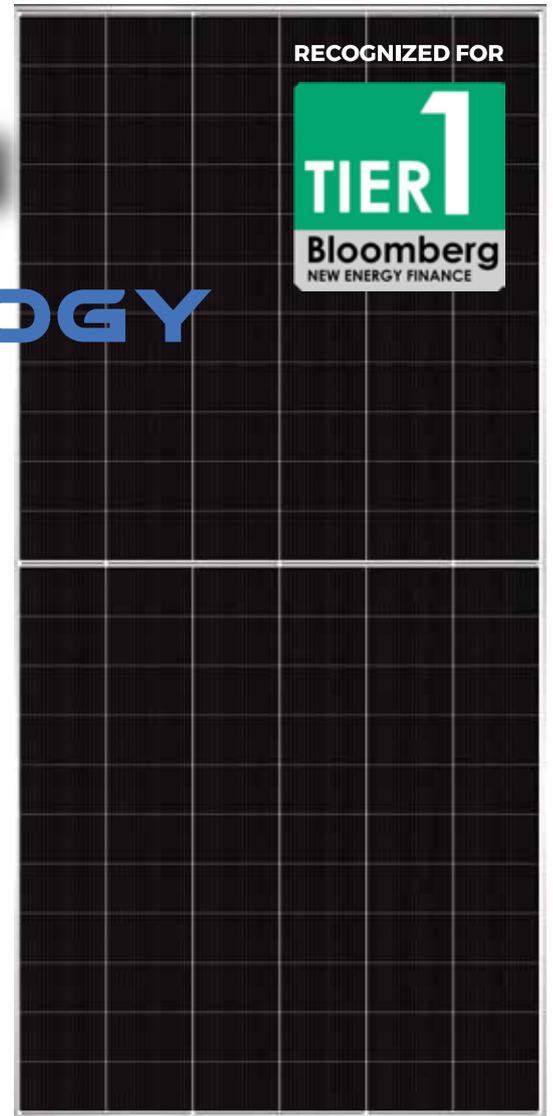
30-year linear power output warranty

15-years product warranty

SUPERIOR WARRANTY



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



### SUPERIOR QUALITY

With MULTIBUSBAR technology and half cell design, Helius Sunlink PV panels reduce conversion of cell by busbars and improve current collection ability on cloudy days.



### HIGH EFFICIENCY AND POWER DENSITY

High conversion efficiency and up to 715 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

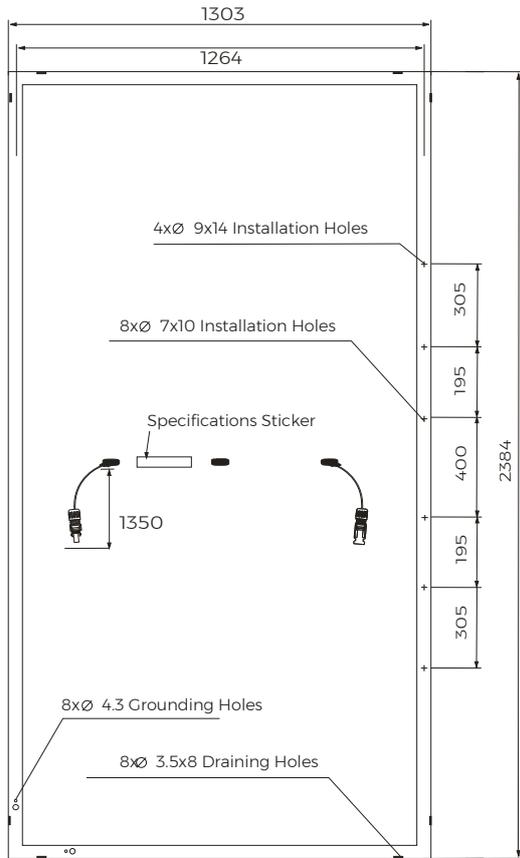
Modules are approved and tested under IEC 61730 and Class C Fire Test.



### 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.

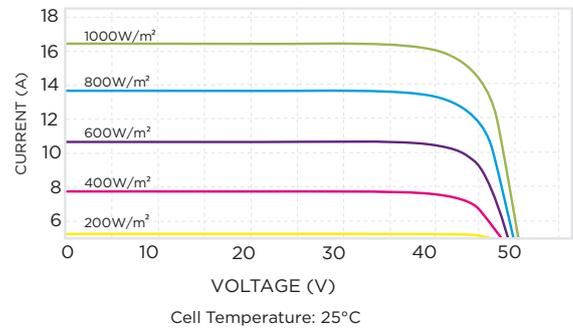
RECOGNIZED FOR **Tier 1**


**MECHANICAL CHARACTERISTICS**

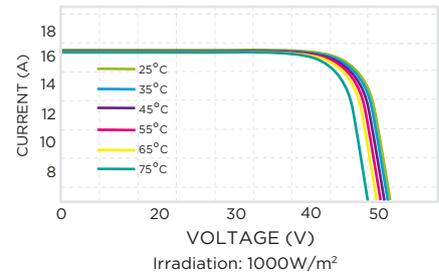
Dimensions	2384 x 1303 x 33mm
Solar Cells	132 Monocrystalline Heterojunction Cells
Weight	38.3 kg
Frame	Anodized Aluminium Alloy
Frontal Glass	2mm High Transmission, Low Iron Tempered
Back Glass	2mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm / Length 1350mm or Customized

**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 ±3°C
Operational Temperature	-40°C - +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/m<sup>2</sup>, 25°C, AM =1.5

**ELECTRICAL CHARACTERISTICS WITH REAR POWER GAIN (700W)**

	10%	20%	30%
$P_{max}$ 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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