



RECOGNIZED FOR



# TopCon Bifacial

*30-year linear power output warranty*

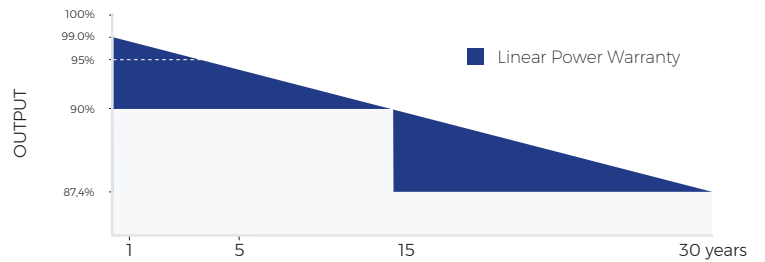
*15-years product warranty*

# HELIUS GENESIS

**HMB132T12R**  
**600W - 625W**

**PREMIUM N-TYPE CELLS**  
**MBB HALF CELL TECHNOLOGY**

**SUPERIOR WARRANTY**



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



**SUPERIOR QUALITY**

With MBB technology and half cell design, Helius Energy panels reduce cover of cell by busbars and improve current collection ability on cloudy days.



**HIGH EFFICIENCY AND POWER DENSITY**

High conversion efficiency and up to 625W. More gain power per square meter.



**PERFORMANCE WARRANTY**

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



**FIRE-PROOF PERFORMANCE**

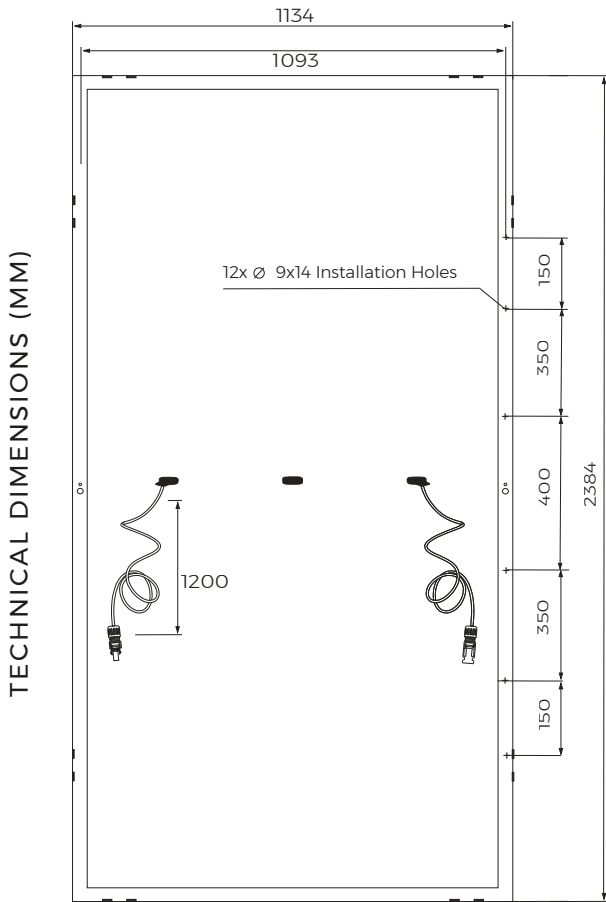
Modules are approved and tested under IEC 61730 and Class C Fire Test.



**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**

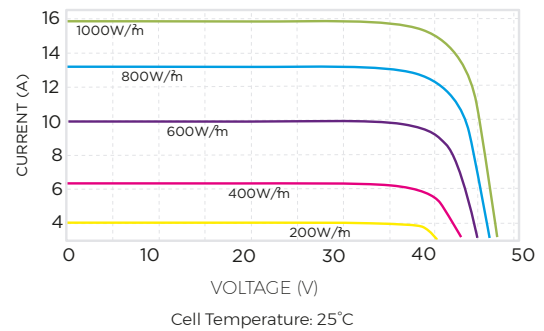


### MECHANICAL CHARACTERISTICS

Dimensions	2384 x 1134 x 30mm
Solar Cells	132 Monocrystalline N-Type Cells
Weight	32 kg
Frame	Anodized Aluminium Alloy
Glass	Double 2.0 mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm / Length 1200mm or customized

### TEMPERATURE CHARACTERISTICS

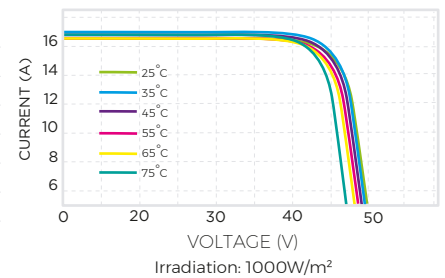
Temperature Coefficient $I_{sc}$	0.045% / °C
Temperature Coefficient $V_{oc}$	-0.25% / °C
Temperature Coefficient $P_{max}$	-0.30% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C a +85°C



### ELECTRICAL CHARACTERISTICS

HMB132T12R	600HL	605HL	610HL	615HL	620HL	625HL
Maximum Power $P_{Max}$ (W)	600	605	610	615	620	625
Maximum Power Voltage $V_{mp}$ (V)	39.45	39.60	39.77	39.89	40.05	40.2
Maximum Power Current $I_{mp}$ (A)	15.21	15.28	15.34	15.42	15.48	15.55
Open Circuit Voltage $V_{oc}$ (V)	47.70	47.90	48.10	48.31	48.5	48.69
Short Circuit Current $I_{sc}$ (A)	15.95	16.00	16.05	16.12	16.19	16.25
Module Efficiency	22.2%	22.4%	22.6%	22.77%	22.95%	23.14%
Maximum System Voltage	1500VCC					
Maximum Series Fuse	30A					

Test Conditions: 1000W/m<sup>2</sup>, 25°C, AM =1.5



### ELECTRICAL CHARACTERISTICS WITH REAR POWER GAIN (600W)

$P_{max}$ Gain (%)	10%	20%	30%
Maximum Power $P_{Max}$ (W)	660	720	780
Maximum Power Voltage $V_{mp}$ (V)	39.45	39.45	39.45
Maximum Power Current $I_{mp}$ (A)	16.74	18.26	19.77

### PACKAGING CONFIGURATION

Modules per Container 40HQ	720 pcs
Pallets per Container 40HQ	20
Modules per Pallet	36
Pallet Dimensions	2405 x 1260 x 1120mm
Gross Weight per Pallet (kg)	1177

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