

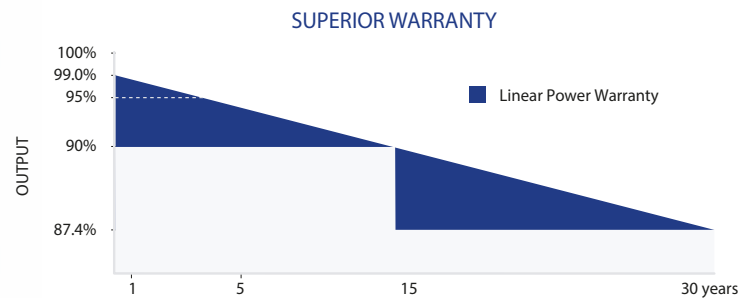


# HELIUS GENESIS

HMF132T12R

595W - 620W

PREMIUM N-TYPE MONOCRYSTALLINE CELLS  
 MBB HALF CELL TECHNOLOGY



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 620W. 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.



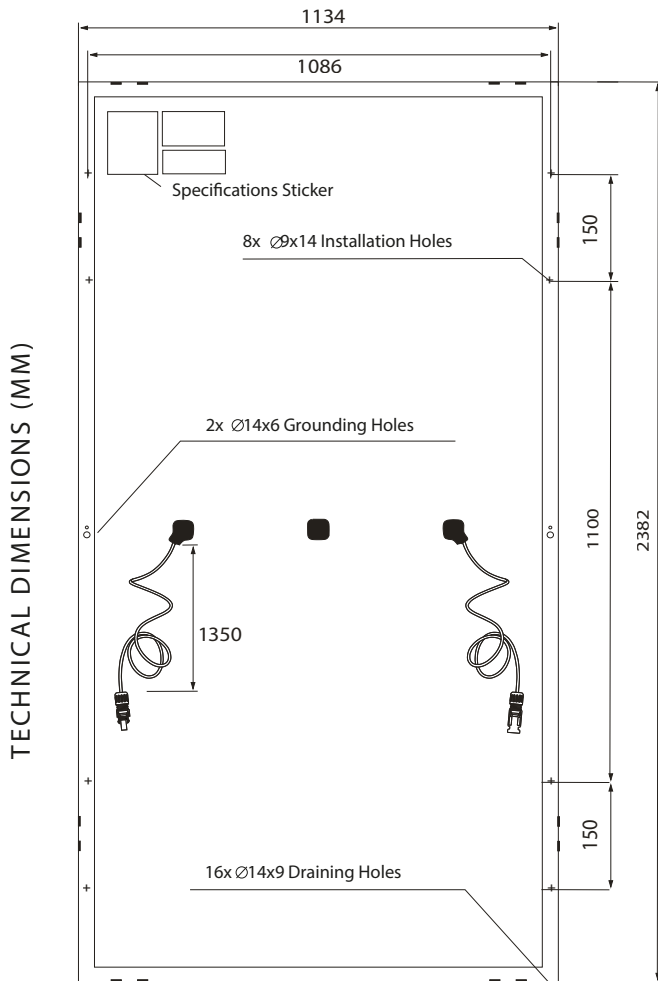
**FIRE-PROOF PERFORMANCE**

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.

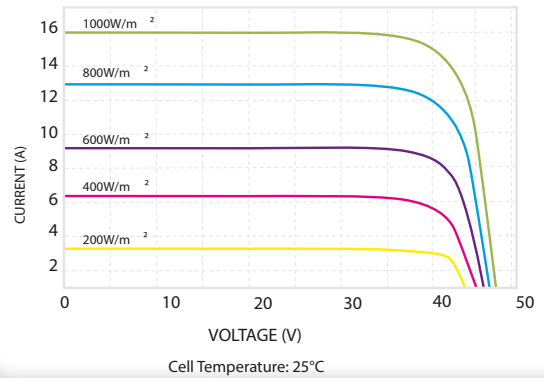


### MECHANICAL CHARACTERISTICS

Dimensions	2382 x 1134 x 30mm
Solar Cells	132 Monocrystalline N-Type Cells
Weight	28.2 kg
Frame	Anodized Aluminium Alloy
Frontal Glass	3.2mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm <sup>2</sup> / Length 1350mm or Customized

### TEMPERATURE CHARACTERISTICS

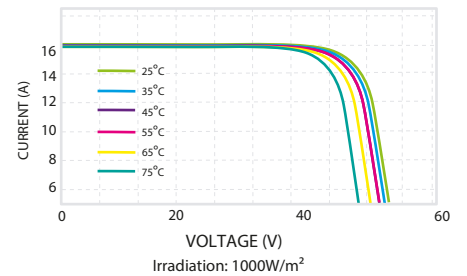
Temperature Coefficient I <sub>sc</sub>	0.046% / °C
Temperature Coefficient V <sub>oc</sub>	-0.26% / °C
Temperature Coefficient P <sub>max</sub>	-0.30% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C ~ +85°C



### ELECTRICAL CHARACTERISTICS

HMF132T12R	595HL	600HL	605HL	610HL	615HL	620HL
Maximum Power P <sub>Max</sub> (W)	595	600	605	610	615	620
Maximum Power Voltage V <sub>mp</sub> (V)	39.28	39.47	39.60	39.74	39.89	40.05
Maximum Power Current I <sub>mp</sub> (A)	15.15	15.21	15.28	15.35	15.42	15.48
Open Circuit Voltage V <sub>oc</sub> (V)	47.50	47.69	47.90	48.10	48.31	48.50
Short Circuit Current I <sub>sc</sub> (A)	15.90	15.93	16.00	16.06	16.12	16.19
Module Efficiency	22.00%	22.20%	22.40%	22.60%	22.77%	22.95%
Maximum System Voltage	1500VCC					
Maximum Series Fuse	35A					

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



### 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)	1035

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