

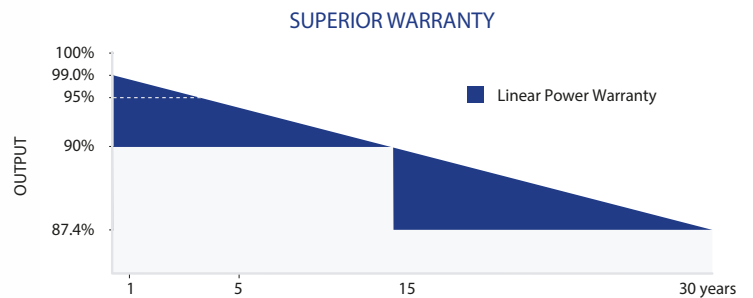


# HELIUS GENESIS

HMF132T10R

565W - 585W

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 585W. More gain power per square meter.

**PERFORMANCE WARRANTY**

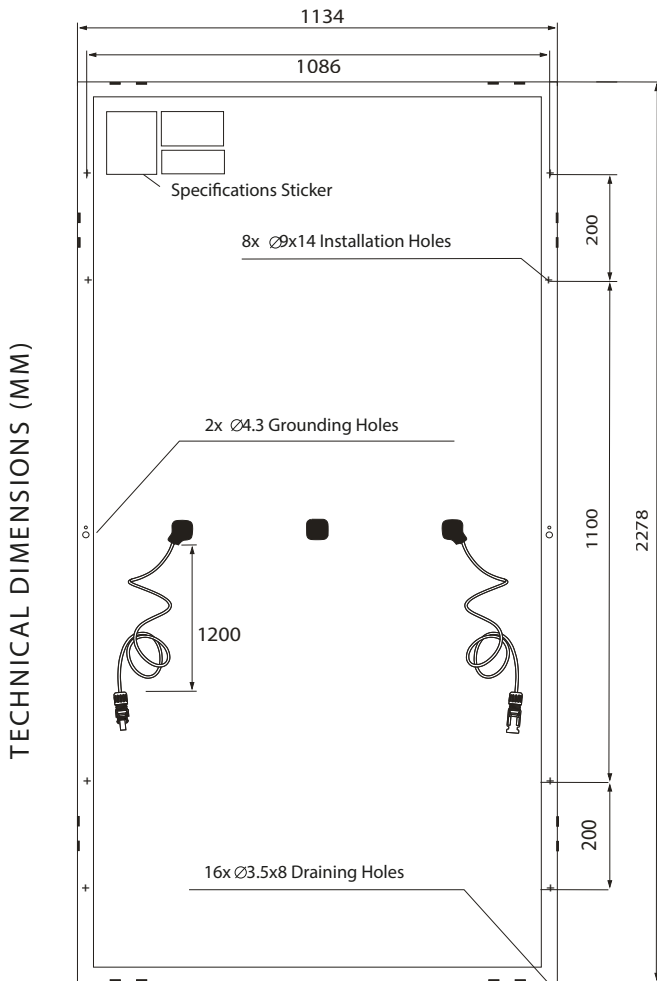
With up to 30 years of solar generation, Helius Energy warranty can guarantee the longevity of your project.

**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.

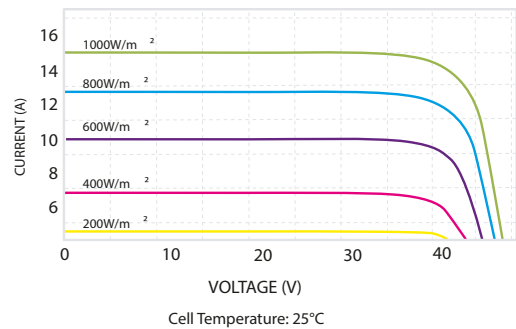


### MECHANICAL CHARACTERISTICS

Dimensions	2278 x 1134 x 30mm
Solar Cells	132 Monocrystalline N-Type Cells
Weight	27 kg
Frame	Anodized Aluminium Alloy
Frontal Glass	3.2mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm / Length 1200mm or Customized

### TEMPERATURE CHARACTERISTICS

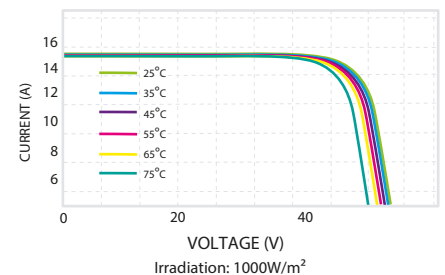
Temperature Coefficient $I_{sc}$	0.045% / °C
Temperature Coefficient $V_{oc}$	-0.25% / °C
Temperature Coefficient $P_{max}$	-0.30% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C a +85°C



### ELECTRICAL CHARACTERISTICS

HMF132T10R	565HL	570HL	575HL	580HL	585HL	590HL
Maximum Power $P_{Max}$ (W)	565	570	575	580	585	590
Maximum Power Voltage $V_{mp}$ (V)	40.34	40.50	40.46	40.62	40.78	40.94
Maximum Power Current $I_{mp}$ (A)	14.08	14.15	14.21	14.28	14.35	14.42
Open Circuit Voltage $V_{oc}$ (V)	48.49	48.69	48.97	49.16	49.36	49.55
Short Circuit Current $I_{sc}$ (A)	14.89	14.96	15.02	15.08	15.16	15.23
Module Efficiency	21.90%	22.10%	22.28%	22.48%	22.67%	22.86%
Maximum System Voltage	1500VCC					
Maximum Series Fuse	25A					

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	2306 x 1263 x 1195mm
Gross Weight per Pallet (kg)	1012

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