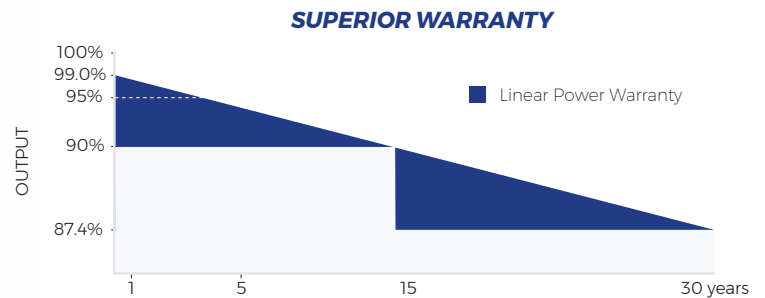


HELIUS GENESIS

HMFI32T12R

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.

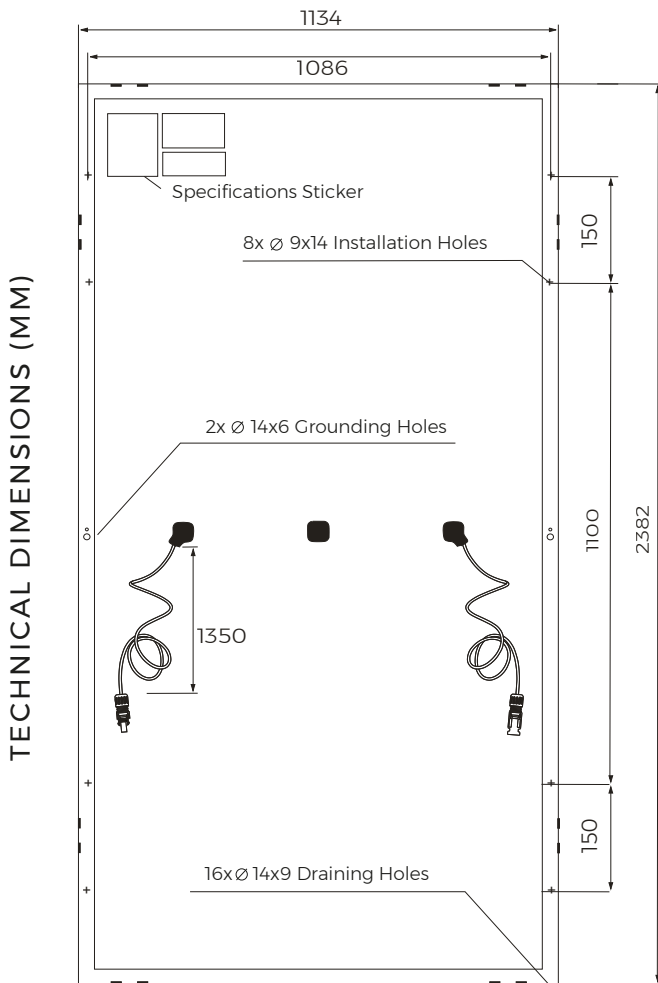
FIRE-PROOF PERFORMANCE

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.

RECOGNIZED FOR **Tier 1**

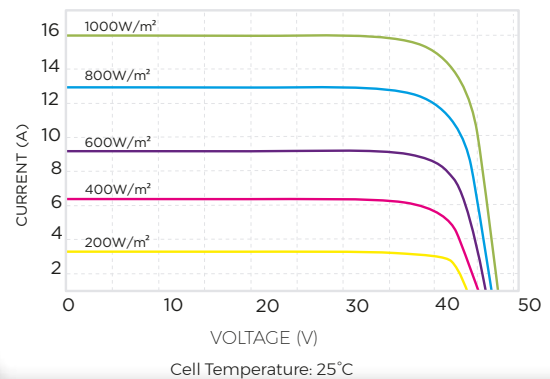


MECHANICAL CHARACTERISTICS

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 ² / Length 1350mm or Customized

TEMPERATURE CHARACTERISTICS

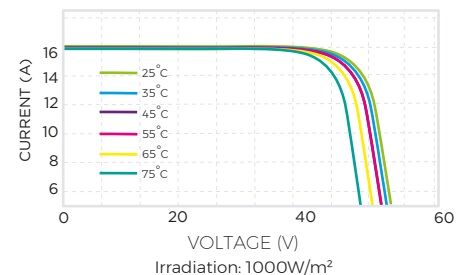
Temperature Coefficient I _{sc}	0.046% / °C
Temperature Coefficient V _{oc}	-0.26% / °C
Temperature Coefficient P _{max}	-0.30% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C ~ +85°C



ELECTRICAL CHARACTERISTICS

HMFI32T12R	595HL	600HL	605HL	610HL	615HL	620HL
Maximum Power P _{Max} (W)	595	600	605	610	615	620
Maximum Power Voltage V _{mp} (V)	39.28	39.47	39.60	39.74	39.89	40.05
Maximum Power Current I _{mp} (A)	15.15	15.21	15.28	15.35	15.42	15.48
Open Circuit Voltage V _{oc} (V)	47.50	47.69	47.90	48.10	48.31	48.50
Short Circuit Current I _{sc} (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/m², 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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DECEMBER 2024

