



HELIUS GENESIS

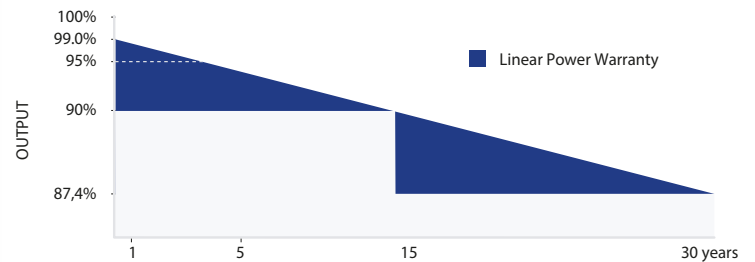
HMF108T10

425W - 440W

PREMIUM N-TYPE MONOCRYSTALLINE 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 440W on 1.95m (22.5%). 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.

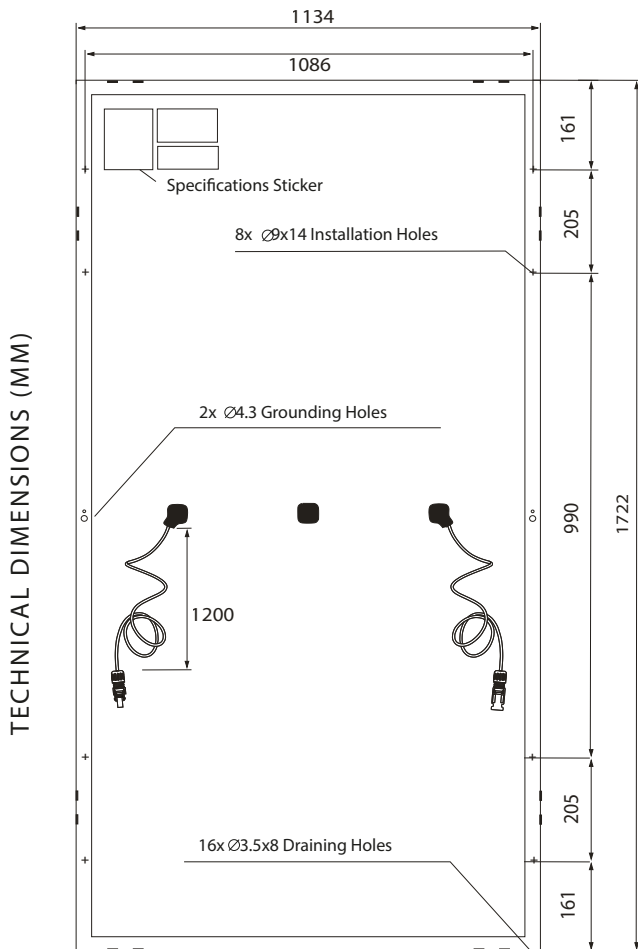


LIGHT AND RELIABLE

Much lighter modules with thicker frames to ensure module resilience. Modules could be applied under ammonia, salt mist, high temperature, high humidity condition.



Helius
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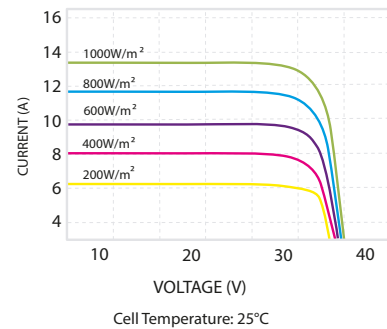


MECHANICAL CHARACTERISTICS

Dimensions	1722 x 1134 x 30mm
Solar Cells	108 Monocrystalline N-Type Cells
Weight	21.5 kg
Frame	Anodized Aluminium Alloy
Frontal Glass	3.2mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm / Length 1200mm

TEMPERATURE CHARACTERISTICS

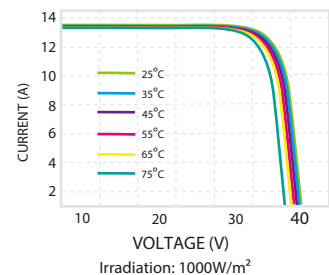
Temperature Coefficient Isc	0.05% / °C
Temperature Coefficient Voc	-0.26% / °C
Temperature Coefficient Pmax	-0.31% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C a +85°C



ELECTRICAL CHARACTERISTICS

HMF108T10	425HL	430HL	435HL	440HL
Maximum Power PMax (W)	425	430	435	440
Maximum Power Voltage Vmp (V)	32.05	32.26	32.47	32.68
Maximum Power Current Imp (A)	13.26	13.33	13.40	13.47
Open Circuit Voltage Voc (V)	38.23	38.42	38.61	38.80
Short Circuit Current Isc (A)	14.08	14.16	14.24	14.32
Module Efficiency	21.8%	22%	22.3%	22.50%
Maximum System Voltage	1500VCC			

Test Conditions: 1000W/m², 25°C, AM = 1.5



PACKAGING CONFIGURATION

Modules per Container 40HQ	936 pcs
Pallets per Container 40HQ	26
Modules per Pallet	36
Pallet Dimensions	1750 x 1623 x 1190mm
Gross Weight per Pallet (kg)	794

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