



RECOGNIZED FOR



TopCon Bifacial

*30-year linear power
output warranty*

15-year product warranty

HELIUS GENESIS

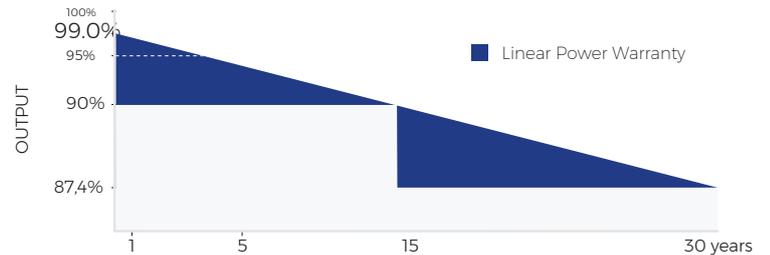
HMB144T10

575W - 590W

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 590W. 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

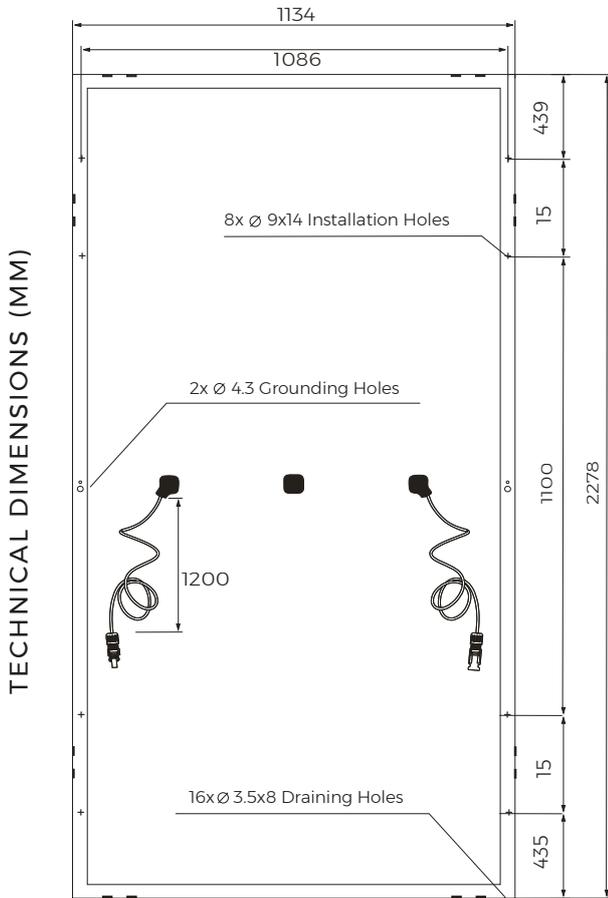
Modules are approved and tested under IEC 61730 and Class C Fire Test.



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**

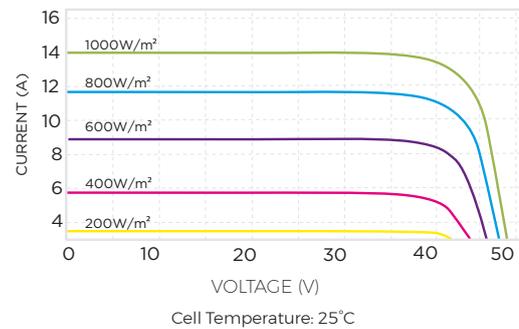


MECHANICAL CHARACTERISTICS

Dimensions	2278 x 1134 x 30mm
Solar Cells	144 Monocrystalline N-Type Cells
Weight	31,3 kg
Frame	Anodized Aluminium Alloy
Glass	Dual 2.0 mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm / Length 1200mm

TEMPERATURE CHARACTERISTICS

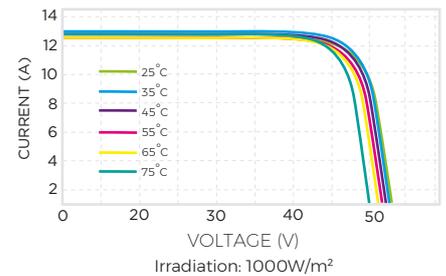
Temperature Coefficient I _{sc}	0.045% / °C
Temperature Coefficient V _{oc}	-0.25% / °C
Temperature Coefficient P _{max}	-0.30% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C a +85°C



ELECTRICAL CHARACTERISTICS

HMB144T10	575HL	580HL	585HL	590HL
Maximum Power P _{Max} (W)	575	580	585	590
Maximum Power Voltage V _{mp} (V)	42.50	42.69	42.87	43.03
Maximum Power Current I _{mp} (A)	13.53	13.59	13.65	13.72
Open Circuit Voltage V _{oc} (V)	51.80	52.00	52.21	52.42
Short Circuit Current I _{sc} (A)	14.30	14.37	14.43	14.50
Module Efficiency	22.3%	22,5%	22.6%	22.8%
Maximum System Voltage	1500VCC			

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



ELECTRICAL CHARACTERISTICS WITH REAR POWER GAIN (580W)

P _{max} Gain (%)	10%	20%	30%
Maximum Power P _{Max} (W)	638	696	754
Maximum Power Voltage V _{mp} (V)	42.69	42.69	42.69
Maximum Power Current I _{mp} (A)	14.95	16.30	17.66

PACKAGING CONFIGURATION

Modules per Container 40HQ	720 pcs
Pallets per Container 40HQ	20
Modules per Pallet	36
Pallet Dimensions	2306 x 1623 x 1196mm
Gross Weight per Pallet (kg)	1152

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