

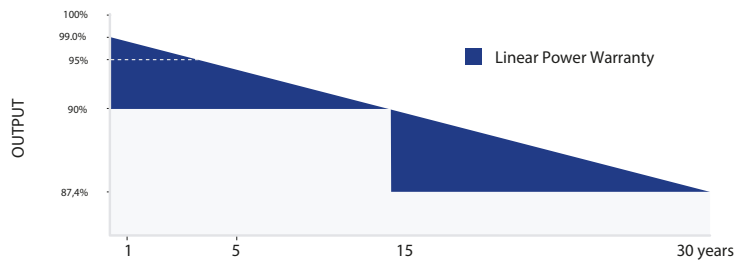


HELIUS GENESIS

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 Sunlink PV 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 Sunlink PV warranty can guarantee the longevity of your project.



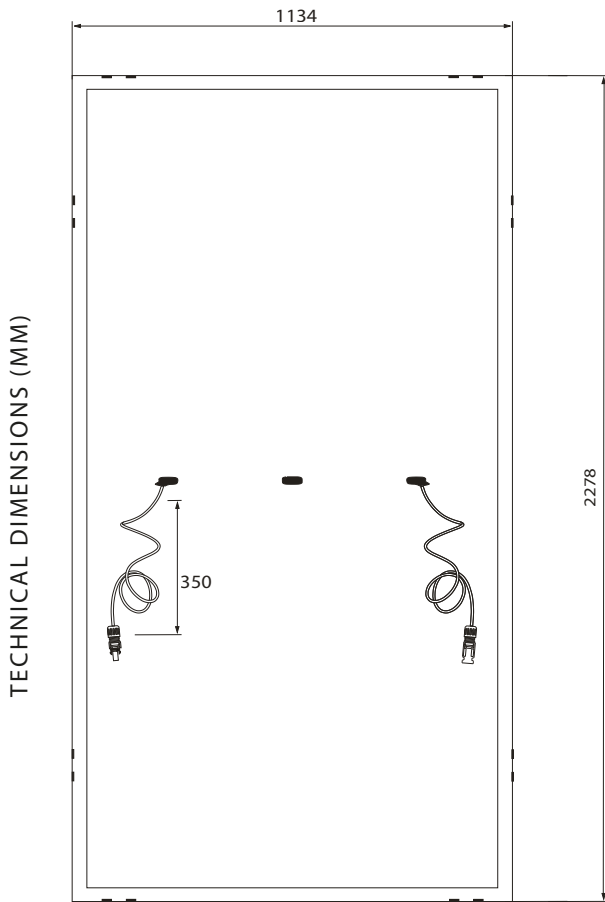
FIRE-PROOF PERFORMANCE

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.

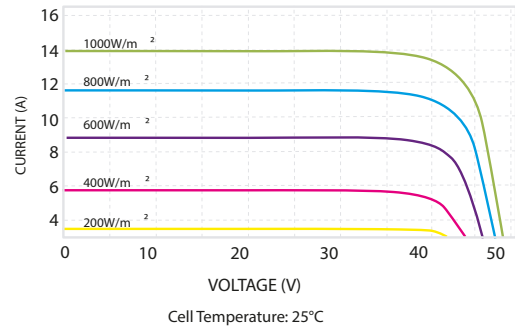


MECHANICAL CHARACTERISTICS

Dimensions	2278 x 1134 x 30mm
Solar Cells	144 Monocrystalline N-Type Cells
Weight	31,2 kg
Frame	Black Composite
Glass	Double 2.0 mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm / Length 350mm or customized

TEMPERATURE CHARACTERISTICS

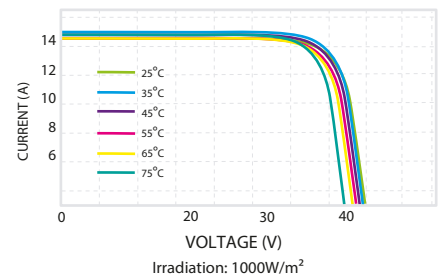
Temperature Coefficient Isc	0.045% / °C
Temperature Coefficient Voc	-0.25% / °C
Temperature Coefficient Pmax	-0.30% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C a +85°C



ELECTRICAL CHARACTERISTICS

	575CB	580CB	585CB	590CB
HMB132T10R	575CB	580CB	585CB	590CB
Maximum Power PMax (W)	575	580	585	590
Maximum Power Voltage Vmp (V)	42.50	42.69	42.87	43.03
Maximum Power Current Imp (A)	13.53	13.59	13.65	13.72
Open Circuit Voltage Voc (V)	51.80	52.99	52.21	52.42
Short Circuit Current Isc (A)	14.30	14.27	14.43	14.50
Module Efficiency	22.3%	22.5%	22.6%	22.8%
Maximum System Voltage	1500VCC			
Maximum Series Fuse	30A			

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



ELECTRICAL CHARACTERISTICS WITH REAR POWER GAIN (580W)

	10%	20%	30%
Pmax Gain (%)	10%	20%	30%
Maximum Power PMax (W)	638	696	754
Maximum Power Voltage Vmp (V)	42.69	42.69	42.69
Maximum Power Current Imp (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)	1155

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