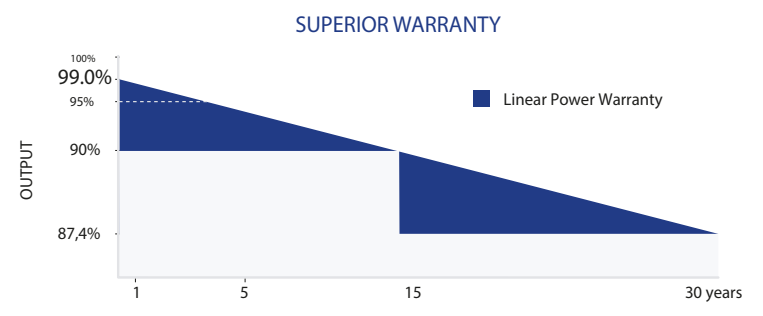




# HELIUS GENESIS

**HMB144T10**  
575W - 590W

PREMIUM N-TYPE 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 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.



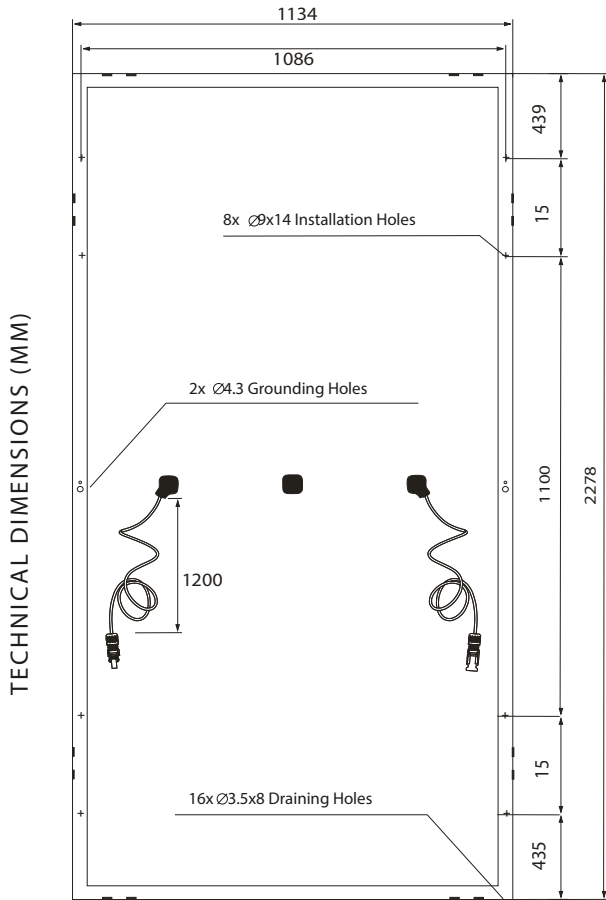
**LIGHT AND RELIABLE**

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



# Helius

## SunLink PV

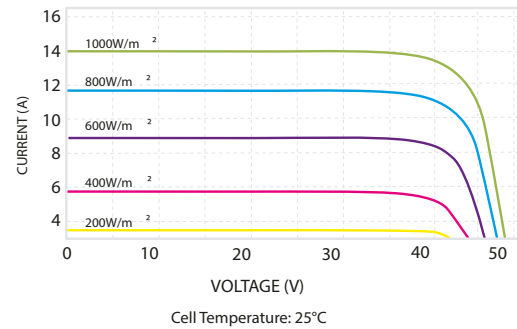


### MECHANICAL CHARACTERISTICS

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

### TEMPERATURE CHARACTERISTICS

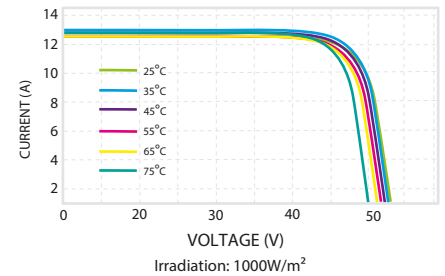
Temperature Coefficient Isc	0.045% / °C
Temperature Coefficient Voc	-0.25% / °C
Temperature Coefficient Pmax	-0.30% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C a +85°C



### ELECTRICAL CHARACTERISTICS

HMB144T10	575HL	580HL	585HL	590HL
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	52.00	52.21	52.42
Short Circuit Current Isc (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/m<sup>2</sup>, 25°C, AM=1.5



### ELECTRICAL CHARACTERISTICS WITH REAR POWER GAIN (580W)

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)	1152

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SEPTEMBER 2023

