Helius SunLink PV

20 YEARS



HELIUS GENESIS

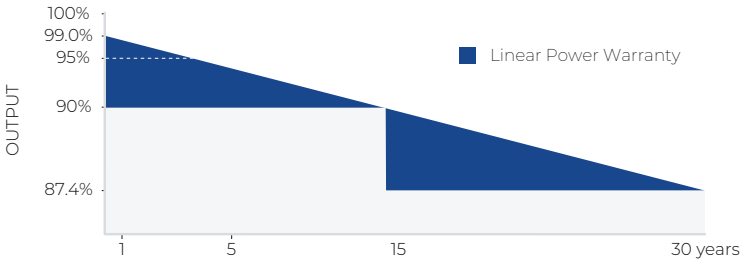
HMB144T10

575W - 590W

***PREMIUM** N-TYPE CELLS*

***MBB** HALF CELL TECHNOLOGY*

SUPERIOR WARRANTY



IEC 61215, IEC 61730, 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 EFFCIENCY 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

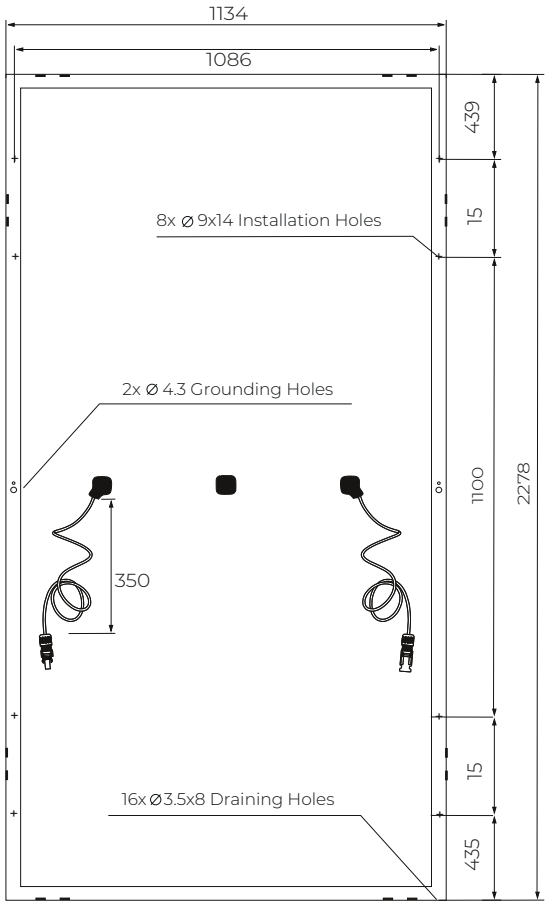
Much higher modules with thicker frames to ensure module resilience. Modules could be applied under ammonia, salt mist, high temperature, high humidity condition.

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TECHNICAL DIMENSIONS (MM)

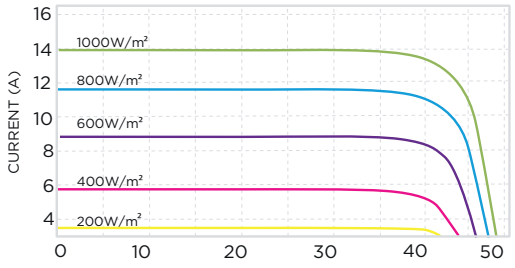


MECHANICAL CHARACTERISTICS

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 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**

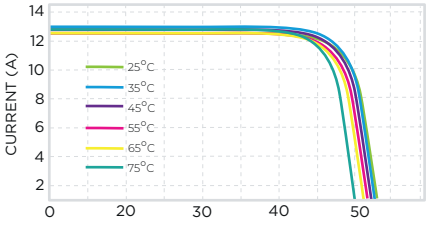


Cell Temperature: 25°C

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/m², 25°C, AM =1.5



Irradiation: 1000W/m²

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	**740 pcs**
Pallets per Container 40HQ	**20**
Modules per Pallet	**37**
Pallet Dimensions	**2306 x 1623 x 1196mm**
Gross Weight per Pallet (kg)	**1188**

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OCTOBER 2026