Helius SunLink PV

20 YEARS

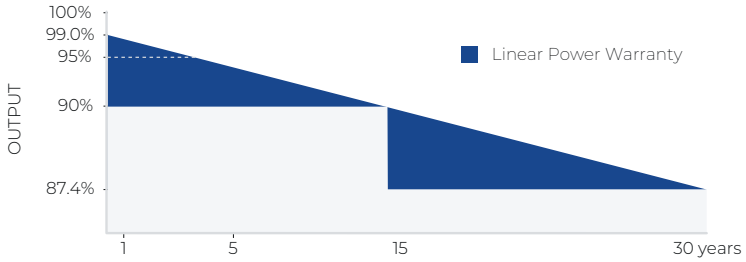
HELIUS GENESIS+

HMB144T10R
580W - 600W



PREMIUM N-TYPE MONOCRYSTALLINE 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 conver of cell by busbars and improve current collection ability on cloudy days.

HIGH EFFCIENCY AND POWER DENSITY

High conversion efficiency and up to 600W.
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

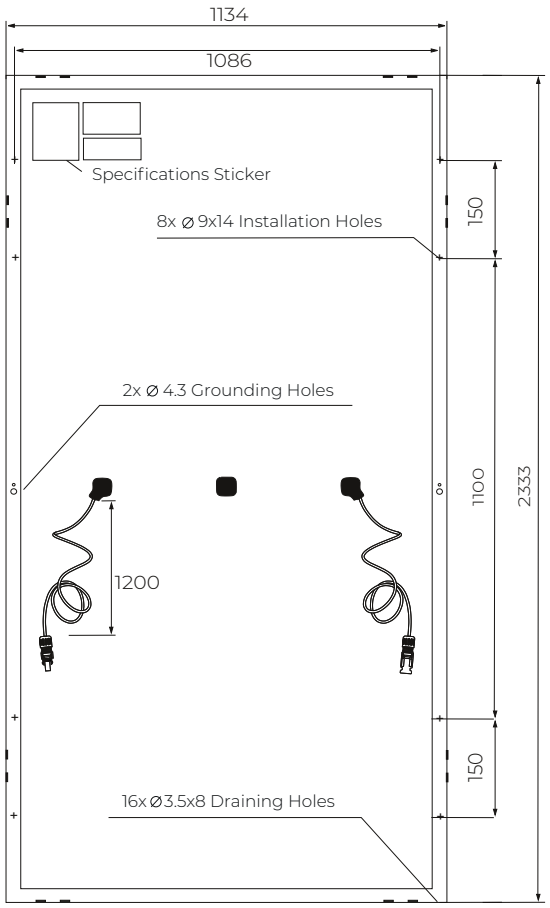
Much ligher modules with thicker frames to ensure module resilience. Modules could be applied under ammonia, salt mist, high temperature, high humidity condition.

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TECHNICAL DIMENSIONS (MM)

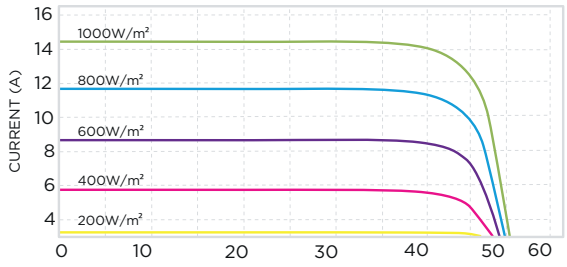


MECHANICAL CHARACTERISTICS

Dimensions	**2333 x 1134 x 30mm**
Solar Cells	**144 Monocrystalline N-Type Cells**
Weight	**32.2 kg**
Frame	**Anodized Aluminium Alloy**
Glass	**2.0 mm + 2.0mm 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 ~+85°C**

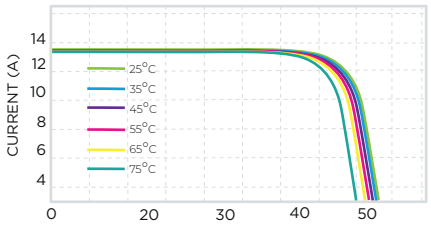


Cell Temperature: 25°C

ELECTRICAL CHARACTERISTICS

HMF144T10R	580HL	585HL	590HL	595HL	600HL
Maximum Power PMax (W)	580	585	590	595	600
Maximum Power Voltage Vmp (V)	43.06	43.22	43.42	43.62	43.82
Maximum Power Current Imp (A)	13.47	13.53	13.59	13.62	13.70
Open Circuit Voltage Voc (V)	51.60	51.8	52.00	52.12	52.29
Short Circuit Current Isc (A)	14.23	14.32	14.35	14.40	14.44
Module Efficiency	22,1%	22.2%	22.3%	22.4%	22.5%
Maximum System Voltage	1500VCC				
Maximum Series Fuse	25A				

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



Irradiation: 1000W/m²

ELECTRICAL CHARACTERISTICS WITH REAR POWER GAIN (590W)

Pmax Gain (%)	10%	20%	30%
Maximum Power PMax (W)	649	708	767
Maximum Power Voltage Vmp (V)	43.42	43.42	43.42
Maximum Power Current Imp (A)	14.94	16.30	17.66

PACKAGING CONFIGURATION

Modules per Container 40HQ	**740 pcs**
Pallets per Container 40HQ	**20**
Modules per Pallet	**37**
Pallet Dimensions	**2376 x 1260 x 1196mm**
Gross Weight per Pallet (kg)	**1221**

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