

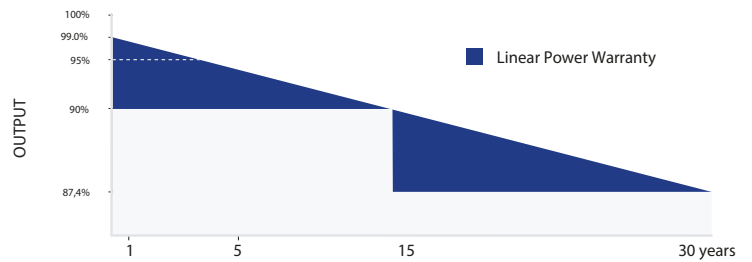


HELIUS GENESIS

HMB132T10R
570W - 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.



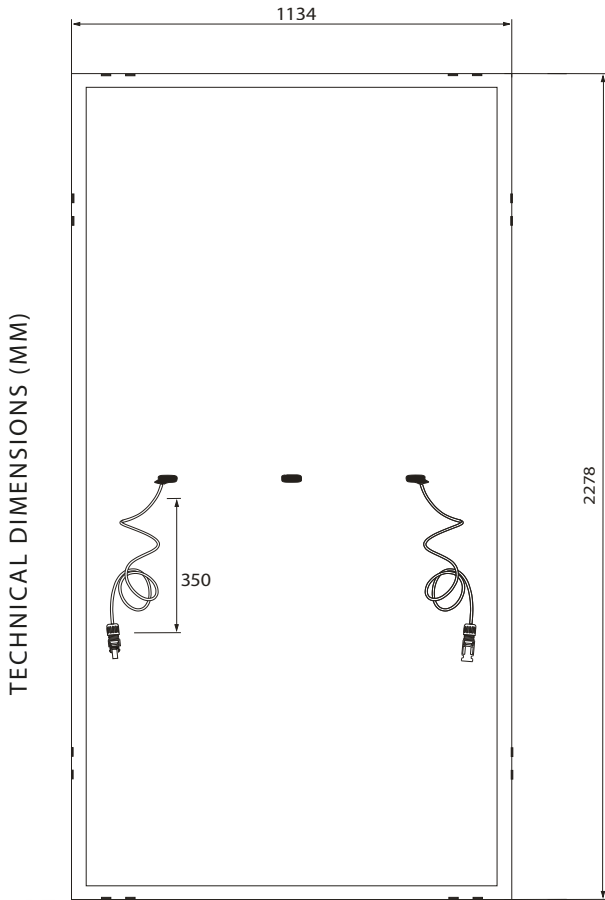
FIRE-PROOF PERFORMANCE

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.

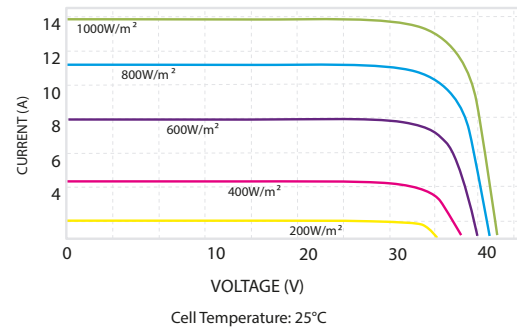


MECHANICAL CHARACTERISTICS

| | |
|-------------|----------------------------------------------------|
| Dimensions | 2278 x 1134 x 30mm |
| Solar Cells | 132 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

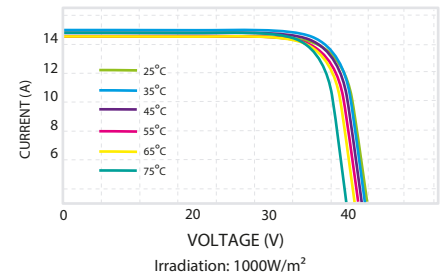
| | |
|-------------------------------------------|---------------|
| Temperature Coefficient I _{sc} | 0.046% / °C |
| Temperature Coefficient V _{oc} | -0.26% / °C |
| Temperature Coefficient P _{max} | -0.30% / °C |
| Nominal Module Operating Temperature NMOT | 44°C + -2°C |
| Operational Temperature | -40°C a +85°C |



ELECTRICAL CHARACTERISTICS

| HMB132T10R | 570CB | 575CB | 580CB | 585CB | 590CB |
|-------------------------------------------|---------|-------|-------|-------|-------|
| Maximum Power P _{Max} (W) | 570 | 575 | 580 | 585 | 590 |
| Maximum Power Voltage V _{mp} (V) | 40.03 | 40.21 | 40.42 | 40.64 | 40.82 |
| Maximum Power Current I _{mp} (A) | 14.24 | 14.30 | 14.35 | 14.41 | 14.47 |
| Open Circuit Voltage V _{oc} (V) | 47.77 | 47.98 | 48.18 | 48.39 | 48.60 |
| Short Circuit Current I _{sc} (A) | 15.10 | 15.16 | 15.21 | 15.25 | 15.29 |
| Module Efficiency | 22.1% | 22.3% | 22.5% | 22.7% | 22.9% |
| Maximum System Voltage | 1500VCC | | | | |
| Maximum Series Fuse | 30A | | | | |

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) | 609 | 696 | 754 |
| Maximum Power Voltage V _{mp} (V) | 40.42 | 40.42 | 40.42 |
| Maximum Power Current I _{mp} (A) | 15.79 | 17.22 | 18.65 |

PACKAGING CONFIGURATION

| | |
|------------------------------|----------------------|
| Modules per Container 40HQ | 720 pcs |
| Pallets per Container 40HQ | 20 |
| Modules per Pallet | 36 |
| Pallet Dimensions | 2307 x 1207 x 1196mm |
| Gross Weight per Pallet (kg) | 1155 |

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