

TopCon

Bifacial

C•BLACK^{tech}

*30-year linear power
output warranty*

15-years product warranty

HELIUS GENESIS

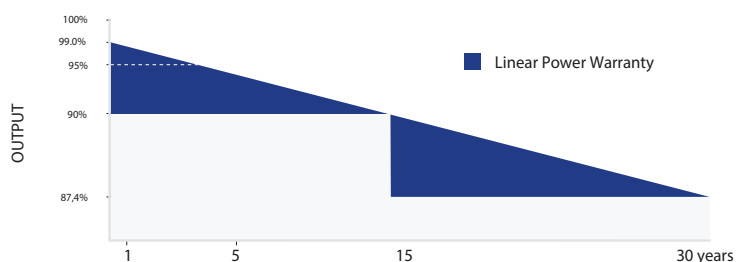
HMB132T12R

605W - 630W

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 630W.
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.



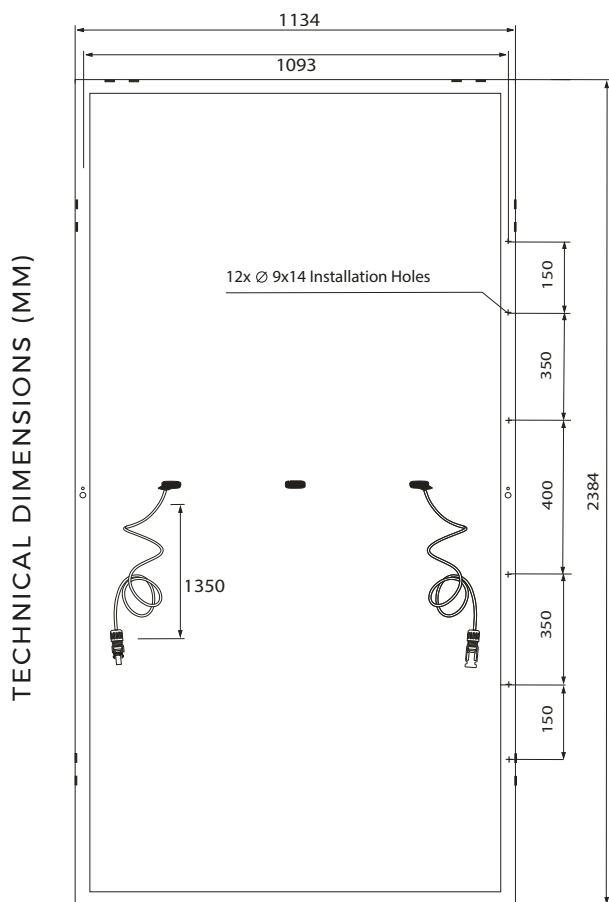
FIRE-PROOF PERFORMANCE

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.

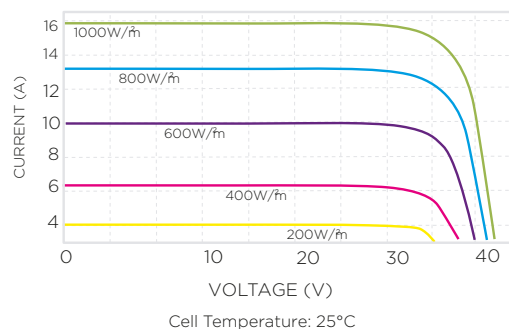


MECHANICAL CHARACTERISTICS

Dimensions	2384 x 1134 x 30mm
Solar Cells	132 Monocrystalline N-Type Cells
Weight	33.3 kg
Frame	Black Composite
Glass	Double 2.0 mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm / Length 1350mm or customized

TEMPERATURE CHARACTERISTICS

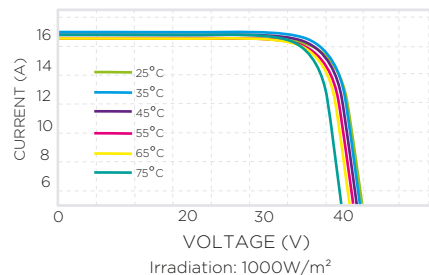
Temperature Coefficient Isc	0.045% / °C
Temperature Coefficient Voc	-0.25% / °C
Temperature Coefficient Pmax	-0.30% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C a +85°C



ELECTRICAL CHARACTERISTICS

HMB132T10R	605CB	610CB	615CB	620CB	625CB	630CB
Maximum Power P _{Max} (W)	605	610	615	620	625	630
Maximum Power Voltage V _{mp} (V)	39.60	39.77	39.89	40.05	40.2	40.36
Maximum Power Current I _{mp} (A)	15.28	15.34	15.42	15.48	15.55	15.61
Open Circuit Voltage V _{oc} (V)	47.90	48.10	48.31	48.5	48.69	48.88
Short Circuit Current I _{sc} (A)	16.00	16.05	16.12	16.19	16.25	16.31
Module Efficiency	22.4%	22.6%	22.77%	22.95%	23.14%	23.3%
Maximum System Voltage	1500VCC					
Maximum Series Fuse	30A					

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



ELECTRICAL CHARACTERISTICS WITH REAR POWER GAIN (610W)

P _{max} Gain (%)	10%	20%	30%
Maximum Power P _{Max} (W)	671	732	793
Maximum Power Voltage V _{mp} (V)	39.77	39.77	39.77
Maximum Power Current I _{mp} (A)	16.87	18.40	19.93

PACKAGING CONFIGURATION

Modules per Container 40HQ	720 pcs
Pallets per Container 40HQ	20
Modules per Pallet	36
Pallet Dimensions	2405 x 1260 x 1120mm
Gross Weight per Pallet (kg)	1240

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