

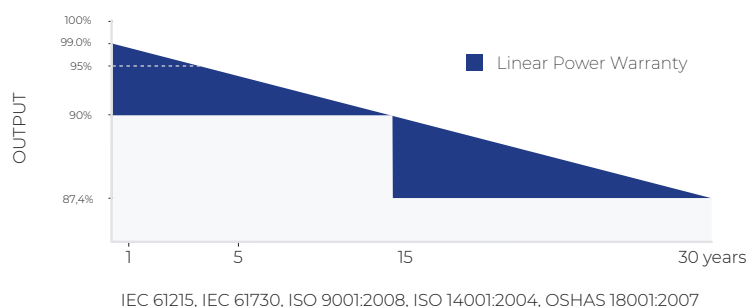


HELIUS GENESIS

HMB132T12R
605W - 630W

PREMIUM N-TYPE CELLS
MBB HALF CELL TECHNOLOGY

SUPERIOR WARRANTY



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.



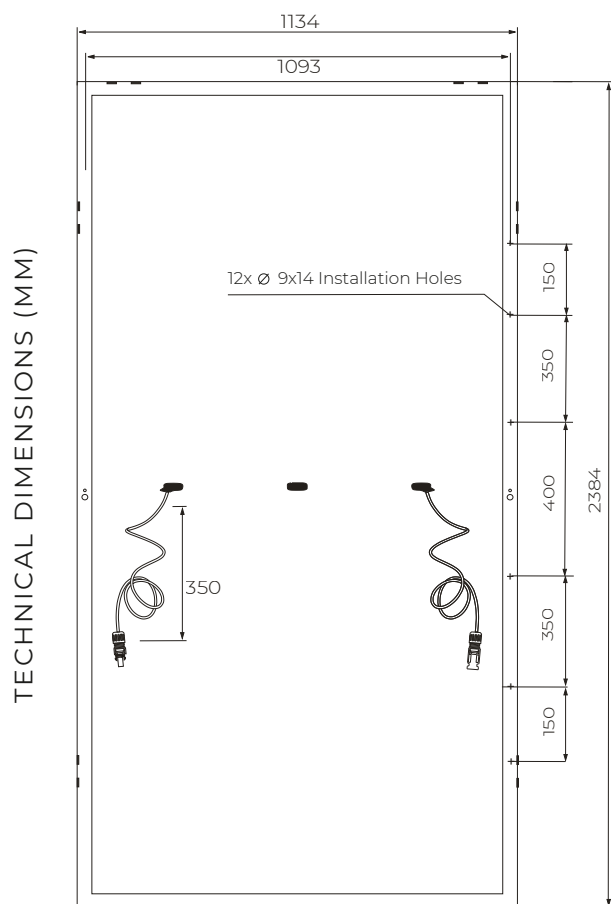
FIRE-PROOF PERFORMANCE

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.

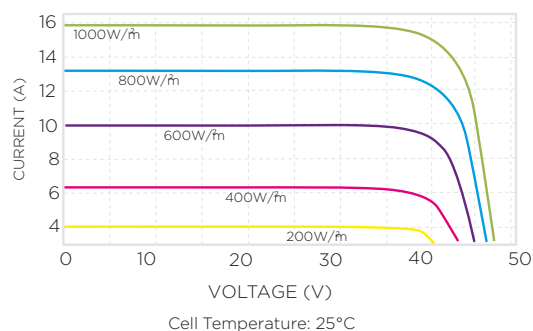


MECHANICAL CHARACTERISTICS

Dimensions	2384 x 1134 x 30mm
Solar Cells	132 Monocrystalline N-Type Cells
Weight	32 kg
Frame	Anodized Aluminium Alloy
Glass	Double 2.0 mm High Transmission, Low Iron Tempered
J-Box	IP68 / 3 bypass diodes
Cables	4mm / Length 350mm or customized

TEMPERATURE CHARACTERISTICS

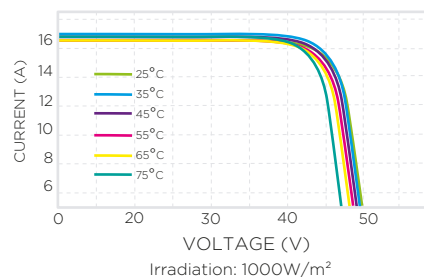
Temperature Coefficient I_{sc}	0.045% / °C
Temperature Coefficient V_{oc}	-0.25% / °C
Temperature Coefficient P_{max}	-0.30% / °C
Nominal Module Operating Temperature NMOT	44°C + -2°C
Operational Temperature	-40°C a +85°C



ELECTRICAL CHARACTERISTICS

HMB132T12R	605HL	610HL	615HL	620HL	625HL	630HL
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	37
Pallet Dimensions	2405 x 1260 x 1120mm
Gross Weight per Pallet (kg)	1210

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