



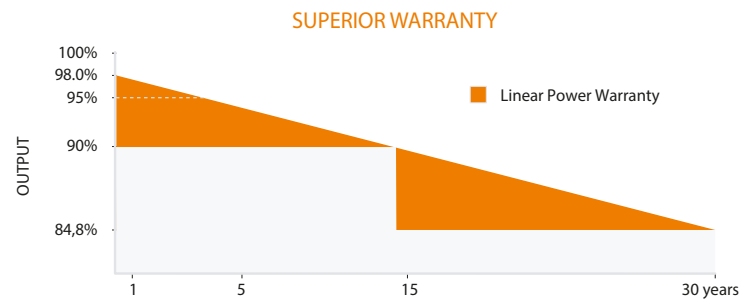
Helius
energy

HELIUS INVICTUS

HMB224M6

705W - 720W

30-year linear power output warranty



INMETRO, IEC 61215, IEC 61730, IEC TS 62804, IEC 61701
ISO 9001:2008 - ISO 14001:2004 - OSHAS 18001:2007

PREMIUM MONOCRYSTALLINE CELLS
MBB HALF CELL TECHNOLOGY



SUPERIOR QUALITY

With MBB technology and half cell design, Helius Energy 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 720 W on 3.34m² (21.55%). More gain power per square meter.



PERFORMANCE WARRANTY

With up to 30 years of solar generation, Helius Energy warranty can guarantee the longevity of your project.



LIGHT AND RELIABLE

Thicker frames to ensure module resilience. Modules could be applied under ammonia, salt mist, high temperature, high humidity condition.



FIRE-PROOF PERFORMANCE

Modules are approved and tested under IEC 61730 and Class C Fire Test.

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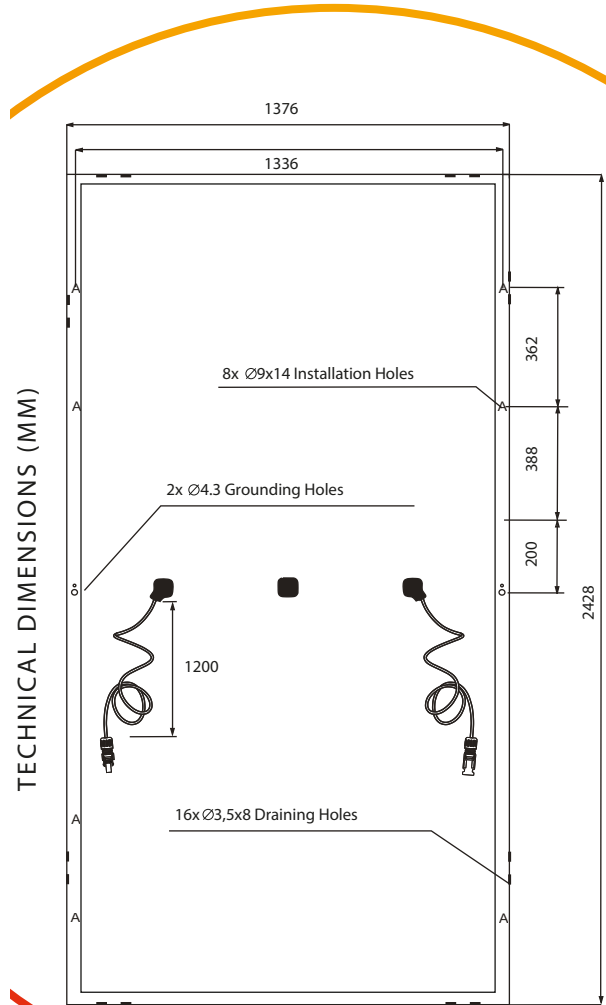
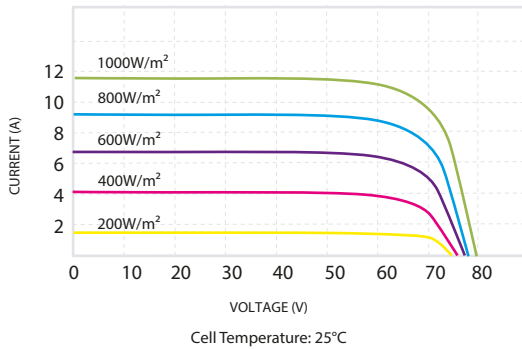
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MECHANICAL CHARACTERISTICS

Dimensions	2428 x 1376 x 30mm
Solar Cells	224 Monocrystalline Cells
Weight	42,5 kg
Frame	Anodized Aluminium Alloy
Frontal Glass	2mm High Transmission, Low Iron Tempered
Back Sheet	2mm Tempered Glass
J-Box	IP68 / 3 bypass diodes
Cables	4mm / length 1200mm

TEMPERATURE CHARACTERISTICS

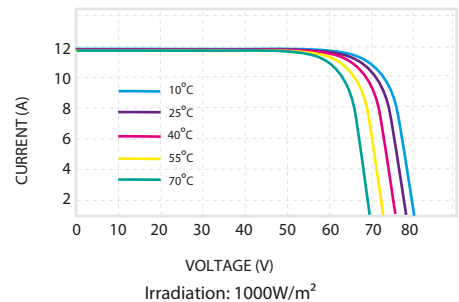
Temperature Coefficient Isc	0.05% / °C
Temperature Coefficient Voc	-0.26% / °C
Temperature Coefficient Pmax	-0.34% / °C
Nominal Module Operating Temperature NMOT	41°C ± -3°C
Operational Temperature	-40°C a + 85°C



ELECTRICAL CHARACTERISTICS

HMB224M6	705HL	710HL	715HL	720HL
Maximum Power PMax (W)	705	710	715	720
Maximum Power Voltage Vmp (V)	64.80	64.97	65.18	65.39
Maximum Power Current Imp (A)	10.88	10.93	10.97	11.01
Open Circuit Voltage Voc (V)	76.87	77.06	77.27	77.48
Short Circuit Current Isc (A)	11.42	11.44	11.45	11.47
Module Efficiency	21.10%	21.25%	21.40%	21.55%
Maximum System Voltage	1500VCC			

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



ELECTRICAL CHARACTERISTICS WITH REAR POWER GAIN (720W)

Pmax Gain (%)	10%	20%	30%
Maximum Power PMax (W)	775.5	864	936
Maximum Power Voltage Vmp (V)	64.21	64.21	64.21
Maximum Power Current Imp (A)	12.07	13.45	14.58

PACKAGING CONFIGURATION

Modules per Container 40HQ	544 pcs
Pallets per Container 40HQ	16
Modules per Pallet	34
Pallet Dimensions	2508 x 1424 x 1125mm
Gross Weight per Pallet (kg)	1465

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