

MESSENGER

KSHC-144 M



144 cell

Monocrystalline
PERC

21,66%

Maximum Efficiency

0 ~ +3%

Positive Power Tolerance

535 - 560

Peak Power Range

STRONG MECHANICAL LOAD CAPACITY

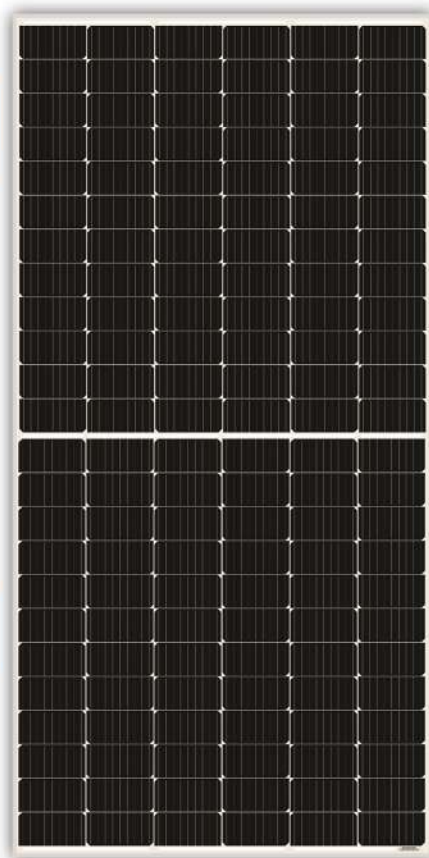


Certified for 5400Pa snow
and 2400Pa wind loads test

ANTI-PID



Resistance to degradation
induced by potential



LOW LIGHT PERFORMANCE

With PERC technology.
Increases performance in
low-light environments



9 BUSBAR SOLAR CELL

New technology for better
efficiency

SPECIAL WARRANTY



82,26% of the
nominal power
output

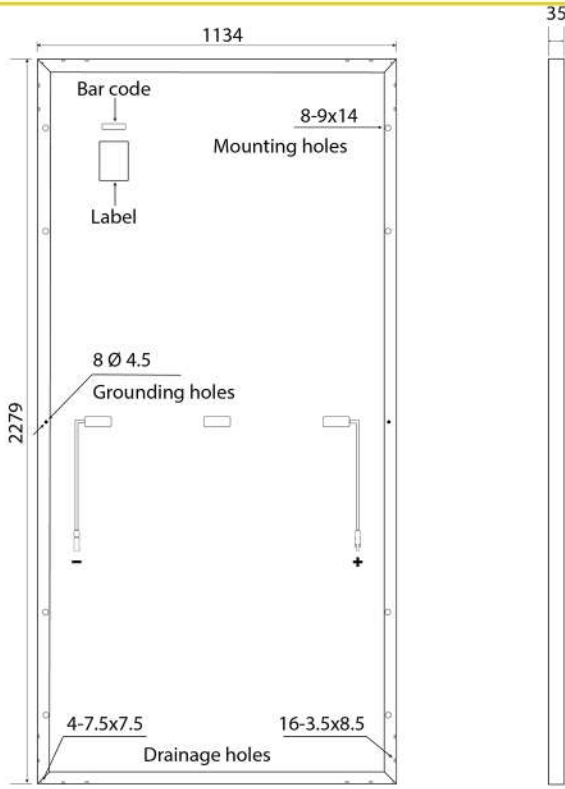


Limited product
warranty



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Rear View

Specifications in this datasheet are subject to change without prior notice.

Cell type	MBB MONO 182X91mm
Number of cells	144 (6x24)
Module dimensions	2279x1134x35 mm
Weight	29kg
Front cover	3.2mm Low iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm ² - 1400mm
Connector	MC4 compatible
Operating Temperature	-40°C ~+85°C
Maximum System Voltage	1500V DC
Fire Resistance Rating	Type 1/Class C (IEC61730)
Maximum Series Fuse Rating	20A

TEMP. CHARACTERISTICS

Nominal Operating Cell Temperature	44°C ±2°C
Temperature Coefficients of Pmax	-0.36%/°C
Temperature Coefficients of VOC	-0.28%/°C
Temperature Coefficients of ISC	0.05%/°C

PACKAGING

Standard packaging	31 pcs/pallet
Module quantity per 40' container	620 pcs

ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (Pmax)	535W	540W	545W	550W	555W	560W
Open Circuit Voltage (VOC)	49.2V	49.4V	49.6V	49.8V	50.0V	50.20V
Short Circuit Current (ISC)	13.81A	13.87A	13.93A	13.99A	14.06A	14.12A
Voltage at Nominal Power (Vmp)	41.0V	41.2V	41.4V	41.6V	41.8V	42.0V
Current at Nominal Power (Imp)	13.05A	13.11A	13.17A	13.23A	13.28A	13.33A
Module Efficiency (%)	20.70	20.90	21.09	21.28	21.47	21.66

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS NOCT

Nominal Power (Pmax)	399W	403W	407W	411W	415W	419W
Open Circuit Voltage (VOC)	46.1V	46.3V	46.4V	46.6V	46.8V	47.0V
Short Circuit Current (ISC)	11.13A	11.18A	11.23A	11.28A	11.33A	11.38A
Voltage at Nominal Power (Vmp)	38.2V	38.4V	38.6V	38.8V	39.0V	39.2V
Current at Nominal Power (Imp)	10.44A	10.49A	10.54A	10.58A	10.63A	10.68A

NOCT: Irradiance 800W/M2, Ambiente temperature 20°C, AM 1.5, Wind speed 1m/s

CURVES

