

SOLAR ORBITER

KSHC-144 PERC



144 cell

Monocrystalline
PERC

21,39%

Maximum Efficiency

0 ~ +3%

Positive Power Tolerance

440 - 465

Peak Power Range

STRONG MECHANICAL LOAD CAPACITY

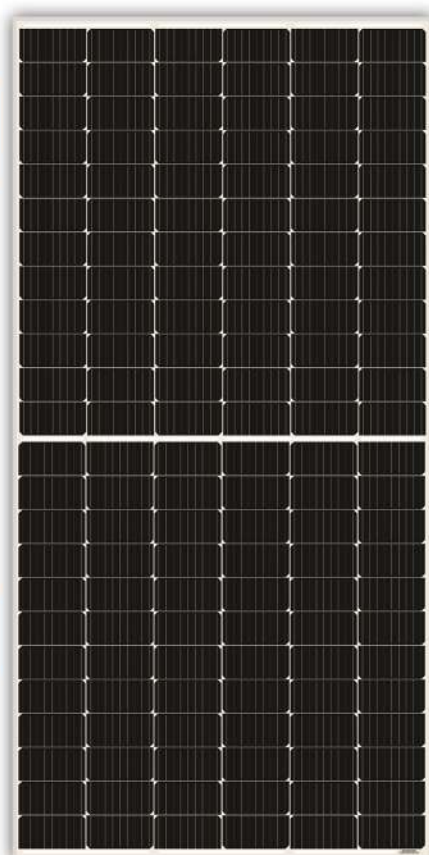


Certified for 5400Pa snow
and 2400Pa wind loads test

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.

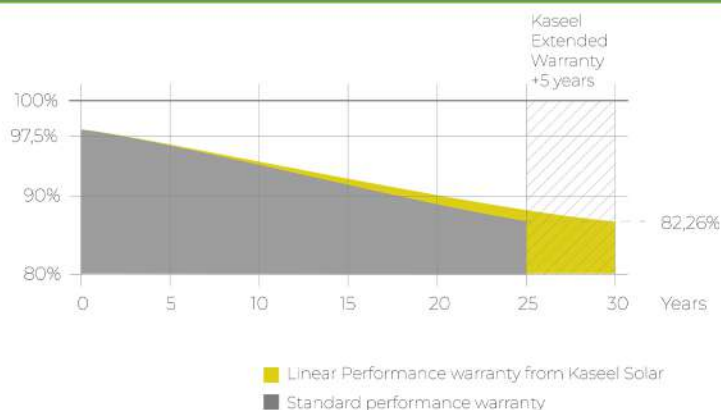
SPECIAL WARRANTY



82,26% of the
nominal power
output

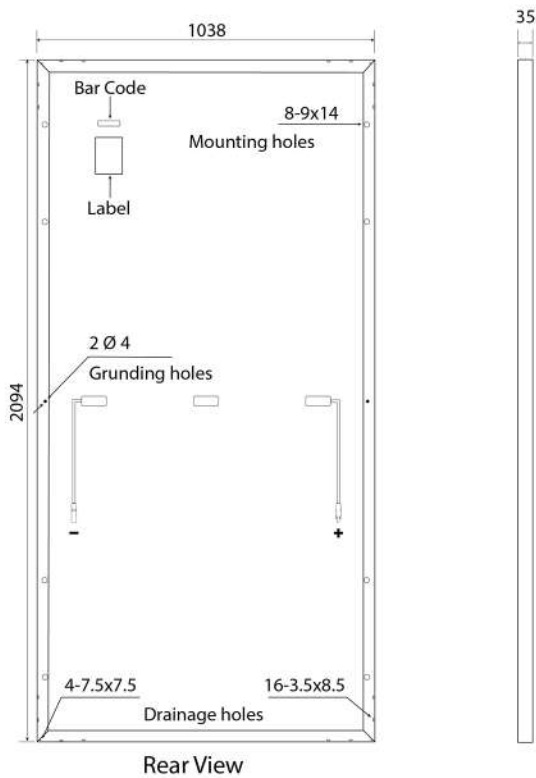


Limited product
warranty



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

Cell type	Monocrystalline PERC 166x83mm
Number of cells	144 (6x24)
Module dimensions	2094x1038x35 mm
Weight	24kg
Front cover	3.2mm tempered glass with AR coating. Low Iron Glass
Frame	Clear anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm ² - 1400mm
Connector	MC4 or MC4 compatible
Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1000/1500V DC
Fire Resistance Rating	Type 1/Class C (IEC61730)
Maximum Series Fuse Rating	20A

TEMP. CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	43°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	31pcs/pallet
Module quantity per 40' container	715pcs

ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (Pmax)	440W	445W	450W	455W	460W	465W
Open Circuit Voltage (VOC)	49.3V	49.5V	49.7V	49.9V	50.1V	50.2V
Short Circuit Current (ISC)	11.16A	11.22A	11.28A	11.34A	11.40A	11.46A
Voltage at Nominal Power (Vmp)	41.4V	41.6V	41.8V	42.0V	42.2V	42.4V
Current at Nominal Power (Imp)	10.63A	10.70A	10.77A	10.84A	10.91A	10.97A
Module Efficiency (%)	20.24	20.47	20.70	20.93	21.16	21.39

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

ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power (Pmax)	327W	331W	335W	339W	343W	347W
Open Circuit Voltage (VOC)	45.4V	45.6V	45.8V	45.0V	46.2V	46.4V
Short Circuit Current (ISC)	9.04A	9.09A	9.14A	9.19A	9.24A	9.29A
Voltage at Nominal Power (Vmp)	37.6V	37.8V	38.0V	38.2V	38.4V	38.6V
Current at Nominal Power (Imp)	8.70A	8.76A	8.82A	8.88A	8.94A	8.99A

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

CURVES

