











MONO PERC BIFACIAL - 108 CELLS

KNR-S -108 MBHC (395-410Wp)



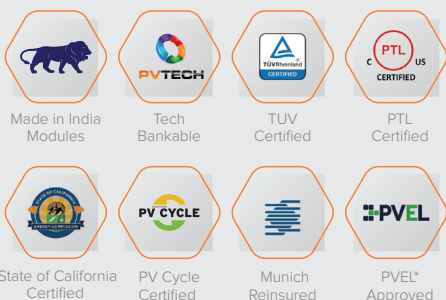
Key Features

- 
High Module Conversion Efficiency
 Module efficiency up to 20.00% achieved through advanced cell technology and manufacturing process.
- 
Advanced Technology
 MBB- Multi Busbar (10BB) / Halfcut MONOPERC cells / Ga Doped Wafers
- 
Positive Tolerance Cell Output
 Guaranteed 0~+4.99 Wp positive tolerance to ensure power output
- 
Excellent Weak Light Performance
 Advanced glass and surface texturing allow for excellent performance in low-light environment.
- 
Extended Wind and Snow load Tests
 Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).
- 
Excellent PID Resistance
 Excellent Anti-PID performance guarantee limited power degradation and certified for up-to 288 Hrs.
- 
Withstanding Harsh Environment
 Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline, ammonia.
- 
Rigorous Testing Criteria
 100% EL inspection ensuring defect-free modules.
- 
Current Sorting
 To minimize the current mismatch losses to maximize system power output.
- 
Bifacial factor 70+5%
 The ratio of rear efficiency in relation to the front efficiency subject to the same irradiance.

Certifications & standards

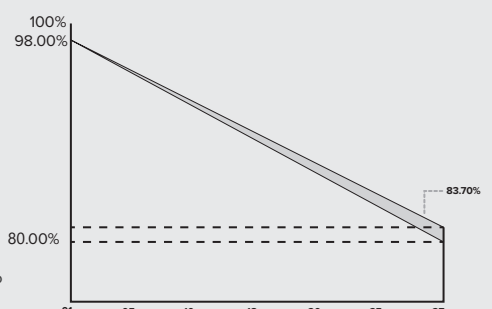
IEC 61215, IEC 61730,
 IEC 61701, UL 61215, UL 61730,
 CEC, IEC 61853-1 lam, IEC
 62804, IEC 62716, IEC 61701,
 IEC 60068-2-68, IEC 61853, IS
 14286

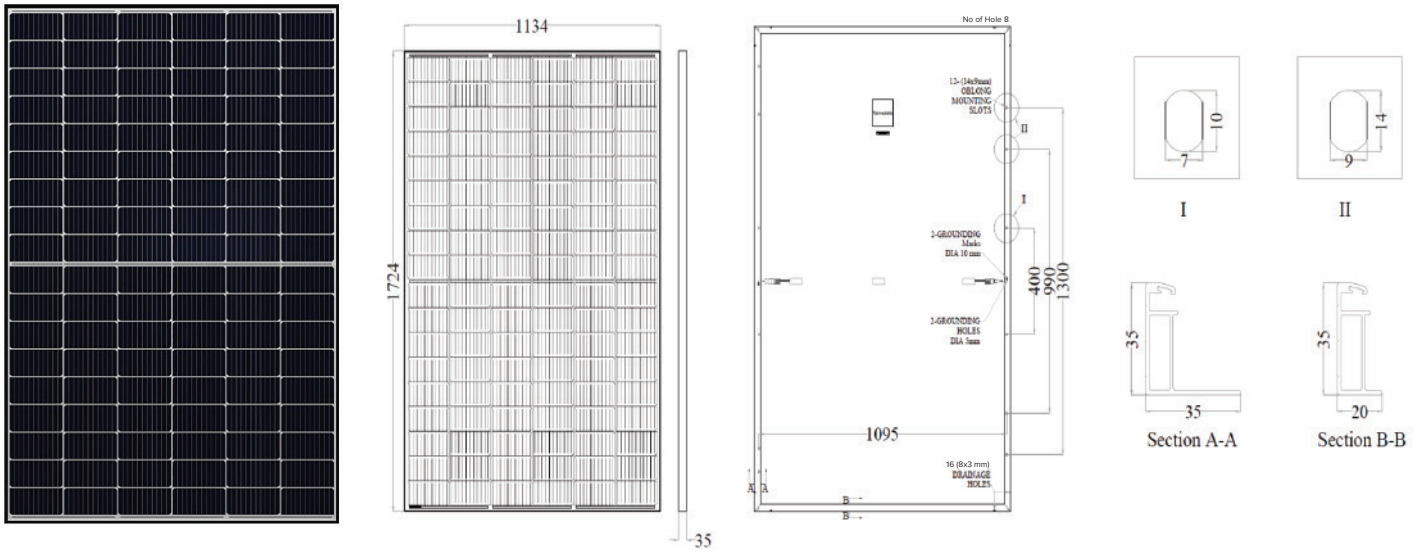
Certifications



Linear Performance Warranty

Product Warranty 12 Years:
 Material & Processing.
 First year Degradation Upto-2%
 Linear Power output 27 Years :
 2-27 Annual degradation -0.55%





ELECTRICAL DATA PERFORMANCE

Conditions	Unit	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Pmax(0 ~ + 4.99)	Wp	395	298	400	302	405	306	410	310
Maximum voltage	Vmp	30.98	28.59	31.17	28.82	31.40	29.03	31.60	29.26
Maximum current	Imp	12.75	10.44	12.83	10.50	12.90	10.56	12.97	10.62
Open circuit voltage,	Voc	37.18	34.61	37.42	34.80	37.67	35.01	37.92	35.15
Short circuit current,	Isc	13.39	10.98	13.47	11.03	13.55	11.11	13.62	11.17
Module Efficiency(%)		20.20		20.46		20.71		20.98	
Operating Temperature(C)	- 40°C ~ +85°C	Temperature coefficients of Isc						0.048%/°C	
Maximum system voltage	1500 VDC	Nominal operating cell temperature (NOCT)						45 ± 2 °C	
Maximum series fuse rating	25A	Fire Safety						Class-C	
Power tolerance	0~+3%	Protection Class II						Class-A	
Temperature coefficients of Pmax	-0.34%/°C	Safety Class						Class II	
Temperature coefficients of Voc	-0.28%/°C								

**STC: Irradiance 1000 W/m2 module temperature 25° C, Am=1.5; NOCT : Irradiance 800 W/m2, ambient teperature 20°C, Am=1.5, Wind speed 1m/s. Average power reduction of 4.5% at 200 W/m2 as per IEC 60904-1. Measuring Uncertainty +/- 3%

Bifacial Gain	Measurement	Unit	395	400	405	410
5%	Maximum Power(Pmax)	Wp	415	420	425	431
10%	Maximum Power(Pmax)	Wp	435	440	446	451
15%	Maximum Power(Pmax)	Wp	454	460	466	472

MODULE MECHANICAL DATA

SPECIFICATION	DATA
Cell Type	Half Cut - PERC Monocrystalline, 108 Cells
Dimensions	1724X1134X35mm
Weight	21.5 kgs
Front Cover	3.2 mm Tempered Glass
Backsheet	Transparent Backsheet/Pattern
Frame Material	Black Anodized Aluminium
J-Box	IP68, 3 diodes
Cable	1200mm, 4mm2
Connectors	MC4 Connector
Container Type	40'HC
No. of Pallet	26
Piece per Pallet	31
Total Qty. of Modules	806

