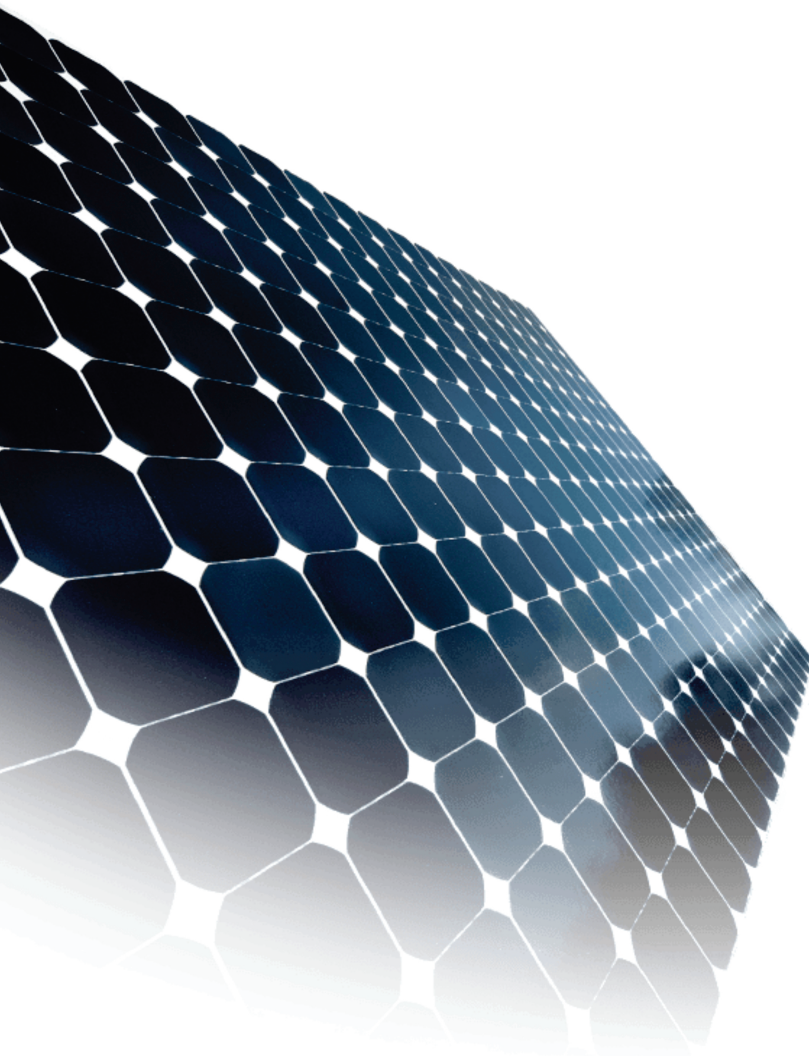


MONO PERC -144 Cells

520 Wp | 525 Wp | 530 Wp | 535Wp | 540 Wp | 545 Wp



Key Features

- 
High Module Conversion Efficiency
 Module efficiency up to 21.0 % 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.

Linear Performance Warranty

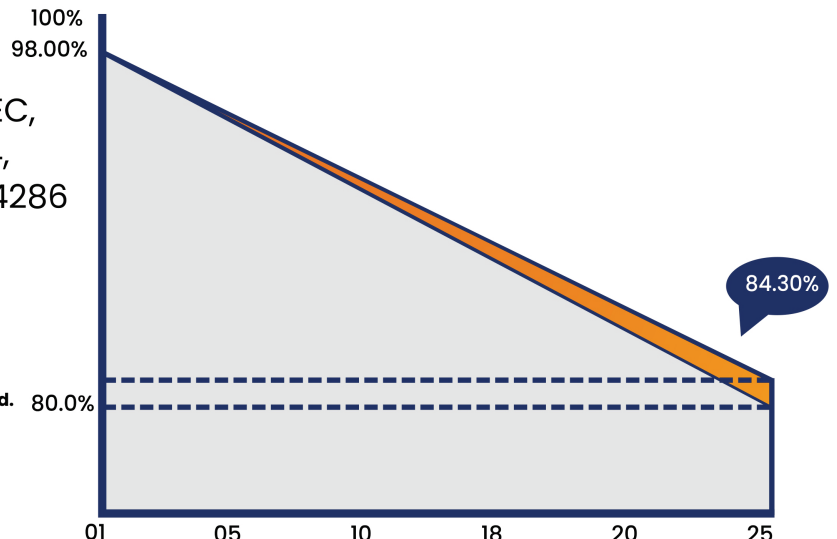
Product Warranty 12 Years: Material & Processing.
 First year Degradation Upto -2.5 %
 Linear Power output 25 : 2-25 Annual degradation -0.55%

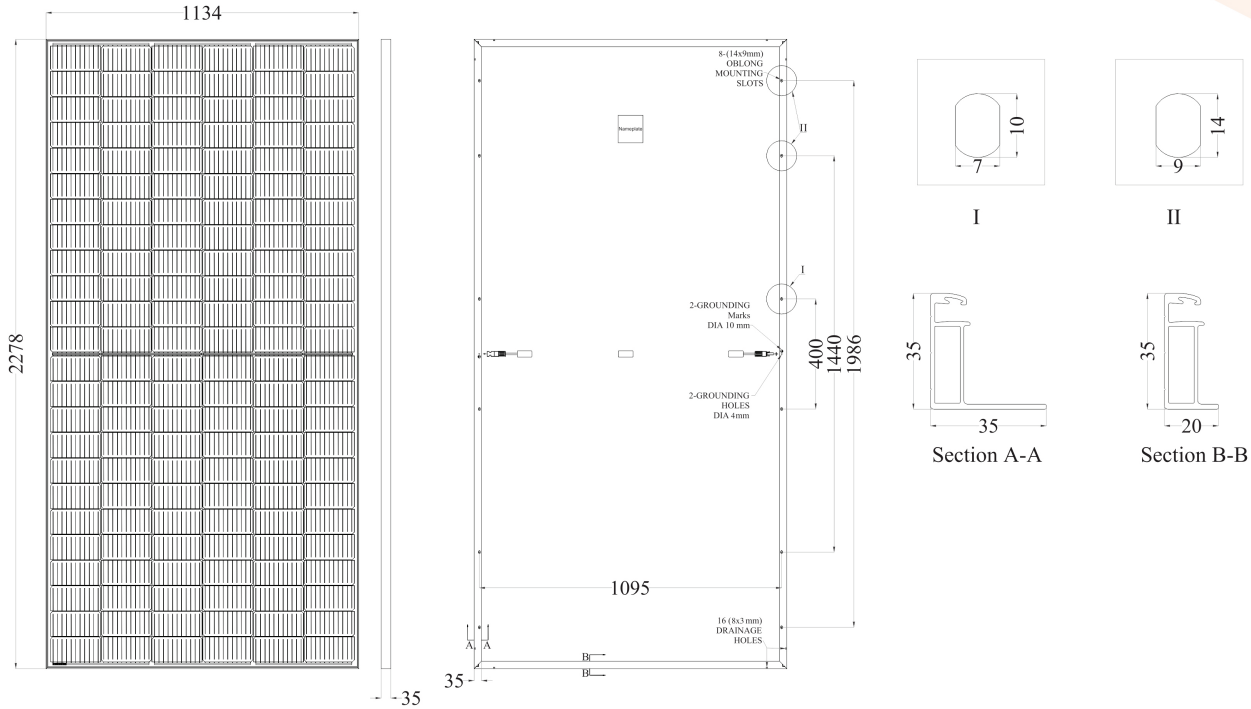
Certifications and standards

IEC 61215, IEC 61730, IEC 61701, UL 61730 *CEC,
 *CEC-Aus, IEC 62716, IEC 62759, IEC 62804,
 IEC 62782, IEC 60068-2-68, IEC 61853 ,IS 14286



*Certification are under progress





Electrical Data Performance

Conditions	Unit	STC		NOCT		STC		NOCT		STC		NOCT	
Peak Power P _{max} (0 ~+ 4.99)W _p	(W _p)	520	393.2	525	393.2	530	397.5	535	401.3	540	405.0	545	408.8
Maximum voltage, V _{mpp}	(V)	41.14	38.29	41.34	38.29	41.5	38.48	41.65	38.68	41.8	38.79	42.08	38.8
Maximum current, I _{mpp}	(A)	12.66	10.27	12.71	10.27	12.78	10.33	12.86	10.39	12.94	10.46	13.01	10.46
Open circuit voltage, V _{oc}	(V)	49.38	45.64	49.60	45.94	49.80	46.17	49.98	46.41	50.16	46.54	50.49	46.56
Short circuit current, I _{sc}	(A)	13.29	10.78	13.35	10.78	13.42	10.85	13.50	10.91	13.59	10.98	13.63	11.03
Module Efficiency(%)	(%)	20.13		20.32		20.52		20.70		20.90		21.10	
Operating Temperature(C)		40°C~+85°C											
Maximum system voltage		1500 VDC											
Maximum series fuse rating		25A											
Power tolerance		0~+3%											
Temperature coefficients of P _{max}		-0.34%/°C											
Temperature coefficients of V _{oc}		-0.28%/°C											
Temperature coefficients of I _{sc}		0.048%/°C											
Nominal operating cell temperature (NOCT)		45 ± 2 °C											
Fire Safety		Class-C											
Application		Class-A											
Safety Class		Class II											

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

MODULE MECHANICAL DATA

SPECIFICATION DATA

Cell Type	Half Cut- PERC Monocrystalline, 144 Cells
Dimensions	2278X1134X35mm
Weight	28 kgs
Front Cover	3.2 mm Tempered Glass
Backsheet	Composite Film
Frame Material	Silver Anodized Aluminium Profile, (black frame on request)
J-Box	IP 68, 3 diodes Split JB
Cable	350mm, 4mm ²
Connectors	MC4 Compatible Connector IEC/UL Certified
Standard Packaging	30 Pieces/Pallet
Module Pieces per Container	600 pieces (40* HQ)

I-V Characteristics At Different Irradiations

