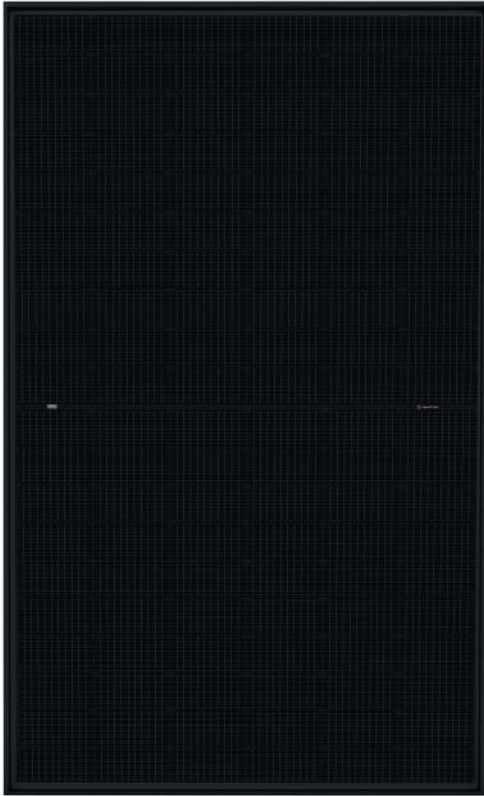












# MONO PERC – 120 CELLS

430Wp-445Wp

SGEXXX-120 MHCB(XXX-430-445Wp)



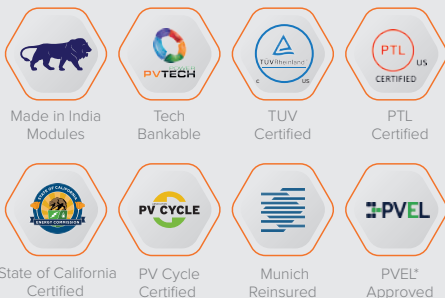
## Key Features

- 
**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.
- 
**Standard**  
 Tested and qualified as per UL standard.

## Certifications & standards

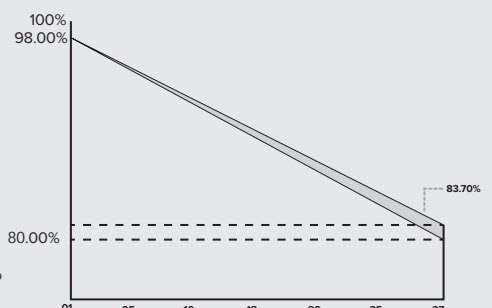
IEC 61215, IEC 61730,  
 IEC 61701, UL 61215, UL 61730,  
 CEC, IEC 61853-1 lam, IEC  
 62804, IEC 62716, IEC 61701,  
 IEC 60068-2-68, IEC 61853, IS  
 14286

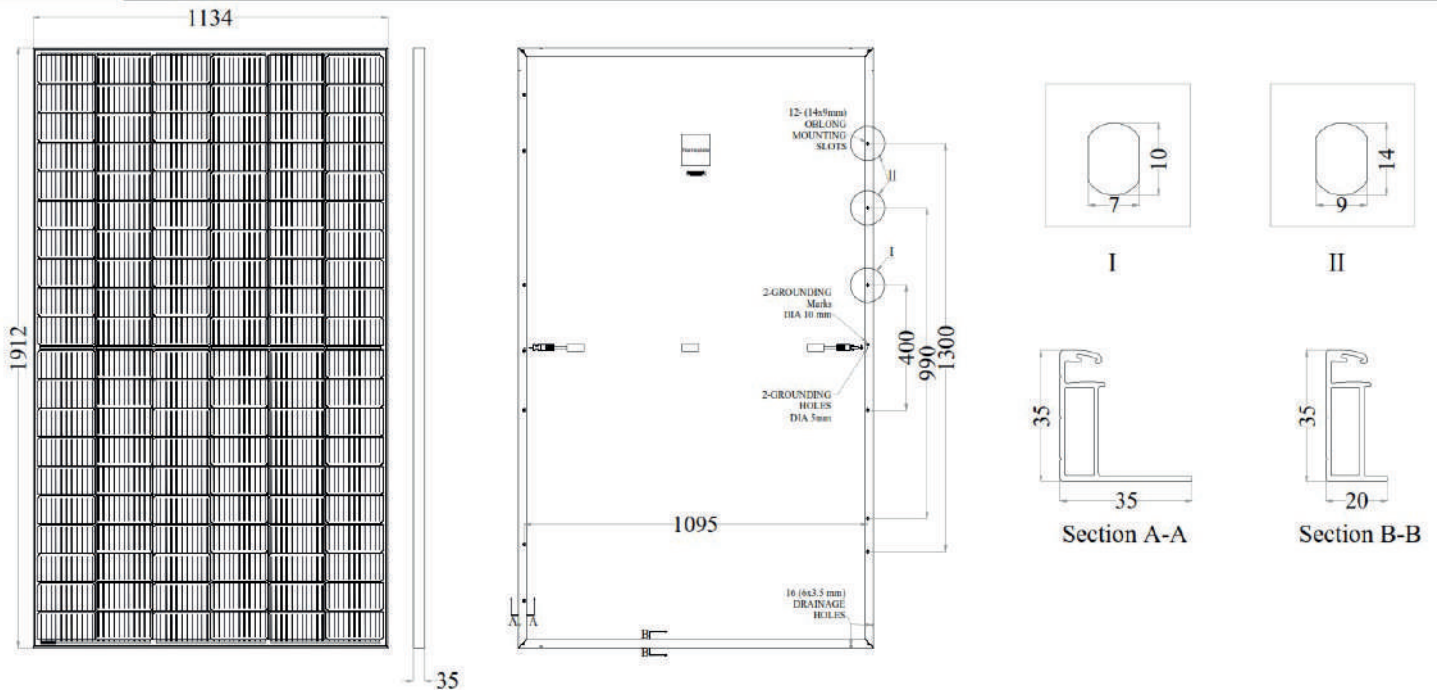
## Certifications



## 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

Condition	Unit	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Pmax(0 ~+ 4.99)Wp	Wp	430	322.07	435	325.82	440	329.5	445	333.3
Maximum voltage, Vmpp	V	33.57	31.09	33.75	31.26	33.93	31.43	34.11	31.59
Maximum current, Imp	A	12.81	10.35	12.89	10.42	12.97	10.48	13.05	10.54
Open circuit voltage, Voc	V	40.28	37.31	40.50	37.51	40.72	37.71	40.93	37.91
Short circuit current, Isc	A	13.45	10.87	13.53	10.94	13.62	11.00	13.70	11.07
Fill factor	%	79%	78%	79%	78%	79%	78%	79%	78%
Module Efficiency	%	19.83		20.06		20.29		20.52	

TC: Irradiance 1000 W/m<sup>2</sup> module temperature 25° C, Am=1.5; NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C,Am=1.5, Wind speed 1m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty +/- 3%

## MODULE MECHANICAL DATA

SPECIFICATION	DATA
Operating Temp.	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse rating	25A
Power Tolrence	0~+3%
Temperature coefficients of Pmax	-0.36%/°C
Temperature coefficients of Voc	-0.28%/°C
Temperature coefficients of Isc	0.048%/°C
Nominal operating cell temperature (NOCT)	45 ± 2 °C
Fire Safety	Type IV
Application	Class-A
Safety Class	Class II
Cell Type	MONOPERC Halfcut
No of Cell	120 Halfcut
Dimension	1912X1134X35
Weight	24 kg
Front Cover	3.2 ARC Glass
Rear Cover	Black Backsheet
Frame Material	Aluminium Black
J-Box	IP67
Cable Length	1200 mm
Connector Type	MC4 Connector
Standard Packaging	31
No. Of Pallet	24
Module Per Container (40HC)	744

