



SD Corporation

Sustainable Renewable Energy Solutions for a Greener Future







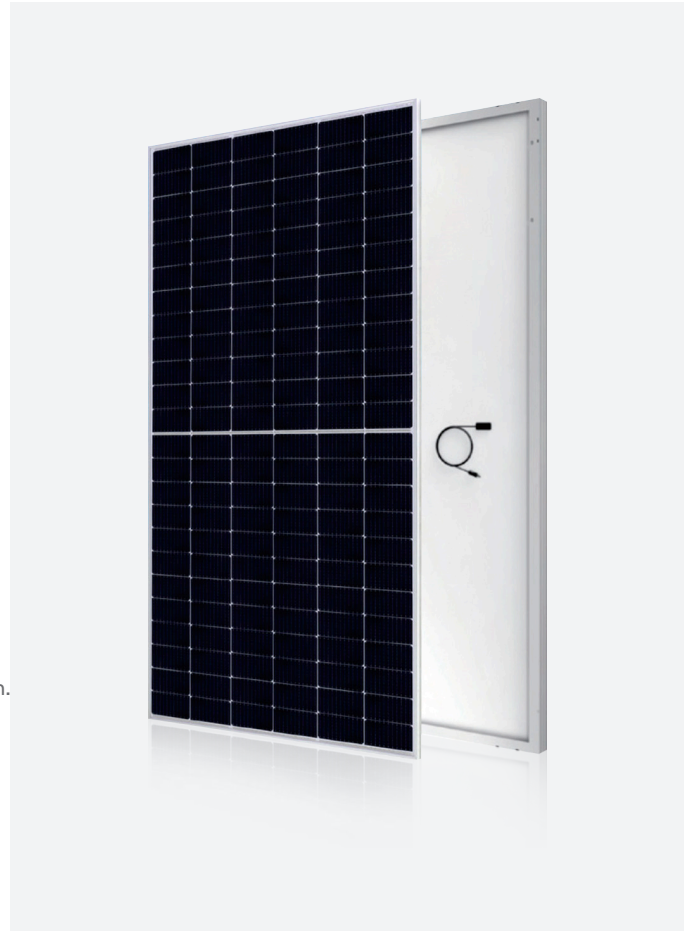
www.sustdevcorp.com

Sustainability Development Corporation (Pty) Ltd

525-550^W 182 Series

Mono Solar Module
144 Cells Single-glass
Multi-busbar
Half-cut Modules

-  **Non-destructive Cutting**
Higher battery bending strength and module mechanical performance.
-  **Higher Customer Value**
Up to 25% extra power gain Lower BOS cost and LCOE.
-  **High-efficiency PERC+battery Technology**
High module power and efficiency Lower power attenuation.
-  **Certified to Withstand the Most Challenging Environmental Conditions**
2400Pa wind load 5400Pa snow load.



Highly Efficient and Reliable Components

Advanced production equipment highly automated process control world-class production technology.

Excellent weak light performance resistant to salt spray and ammonia corrosion.

Certified by international quality management and environmental management system.

The company has a product research and development laboratory that meets the new ISO/IEC international standards.

Passing the certification test of the PV standards.

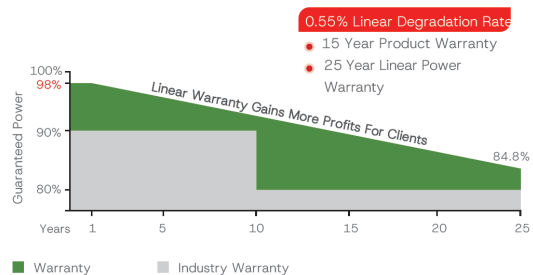
Application grade: A Safe grade Fireproofing gradeC

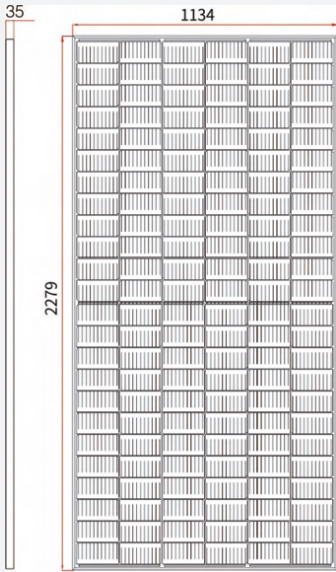
Comprehensive Products And System Certificates



IEC61215/IEC61730/UL1703/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO 45001: Occupational Health and Safety Management System
GB/T 23001-2017 Integrated Management System

Industry-leading Linear Warranty



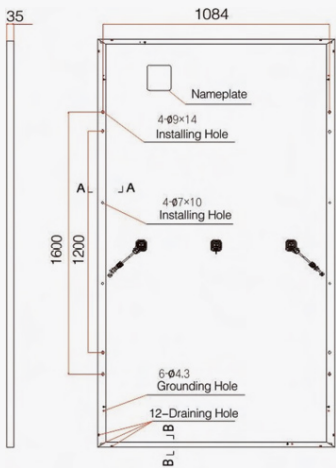


Electrical Data STC						
Power Output Tolerance-Pmax (Wp)	525	530	535	540	545	550
Power Output Tolerance-PMAX(W)	0 ~ +5					
Maximum Power Voltage-Vmpp (V)	41.15	41.31	41.47	41.64	41.80	41.96
Maximum Power Current-Impp (A)	12.76	12.83	12.90	12.97	13.04	13.11
Open Circuit Voltage-Voc (V)	49.15	49.30	49.45	49.60	49.75	49.90
Short Circuit Current-Isc (A)	13.65	13.72	13.79	13.86	13.93	14.00
Module Efficiency-nm(%)	20.3	20.5	20.7	20.9	21.1	21.3

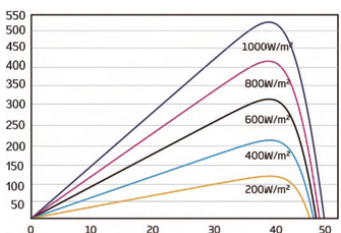
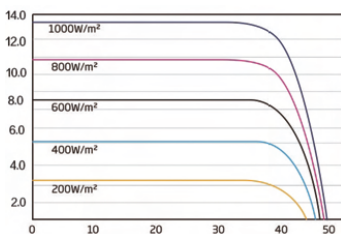
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

Electrical Data (NOCT)						
Maximum Power-PMAX (Wp)	397	401	405	408	412	416
Maximum Power Voltage-Vmpp (V)	38.36	38.57	38.79	39.00	39.20	39.43
Maximum Power Current-Impp (A)	10.35	10.40	10.44	10.48	10.52	10.56
Open Circuit Voltage-Voc (V)	46.05	46.18	46.31	46.43	46.55	46.68
Short Circuit Current-Isc (A)	11.07	11.01	11.05	11.09	11.13	11.17

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



Mechanical Data	
Solar Cells	Monocrystalline
Cell Orientation	144 Cell (6×24)
Module Dimensions	2279×1134×35mm (89.72×44.65×1.38 inches)
Weight	28.5kg (62.83 lb)
Front Glass	3.2mm(0.13inches),High Transmission,Strengthened Costed Glass
Encapsulant Material	EVA
Backsheet	White
Frame	36mm (1.38inches) Anodized Aluminium Alloy
J-Box	IP 68 Rated
Cables	4.0mm ² , 350mm Photovoltaic Special Cable, or Customized
Connector	MC4, QC4



Temperature Rating		Limit Parameters	
NOCT(Normal Operating Cell Temperature)	45°C (±2°C)	Operating Temperature	-40°C ~ 85°C
Temperature Coefficient of Pmax	-0.350%/°C	Maximum System Voltage	1500V DC(IEC)
Temperature Coefficient of Voc	-0.275%/°C	Max Series Fuse Rating	25A
Temperature Coefficient of Isc	0.045%/°C	(DO NOT connect Fuse in Combiner Box with two or more strings at parallel connection)	