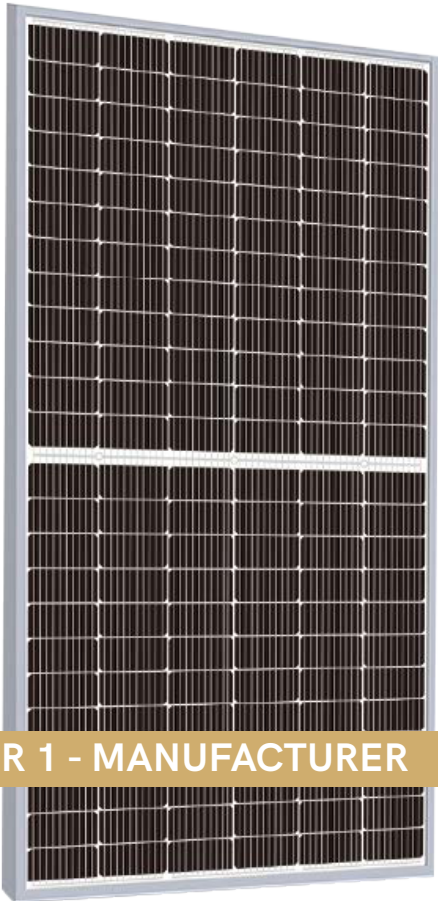


SW545M7-SHLD144 SERIES

10BB HALF-CELL DOUBLE GLASS
MONOCRYSTALLINE PERC PV MODULE



MONO 144 SOLAR PANEL FEATURES



EXCELLENT CELLS EFFICIENCY

MBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



ANTI PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



TIER 1 - MANUFACTURER

Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



BETTER WEAK ILLUMINATION RESPONSE

More power output in weak light condition, such as haze, cloudy, and early morning.



ADAPT TO HARSH OUTDOOR ENVIRONMENT

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



EXCELLENT QUALITY MANAGEMENT SYSTEM

Warranted reliability and stringent quality assurances well beyond certified requirements.

TIER 1 - MANUFACTURER



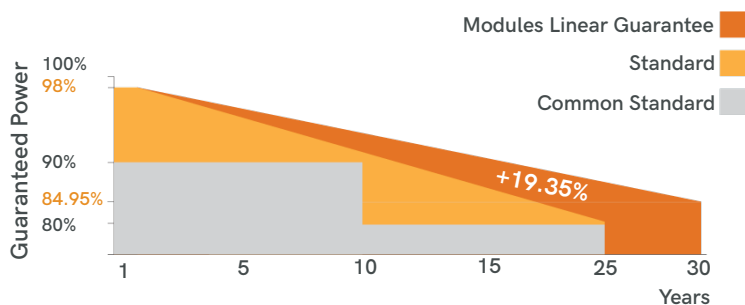
540-550W 21.28%

POWER RANGE

0.45%

YEARLY DEGRADATION

MAXIMUM EFFICIENCY



WARRANTY

12 Years for product warranty
30 Years output guarantee

IEC 61215/IEC 61730/IEC 61701/IEC 62716/UL6 1730
ISO 14001: Environmental Management System
ISO 9001: Quality Management System
ISO45001: Occupational Health and Safety Management System

Certified with manufacturer.



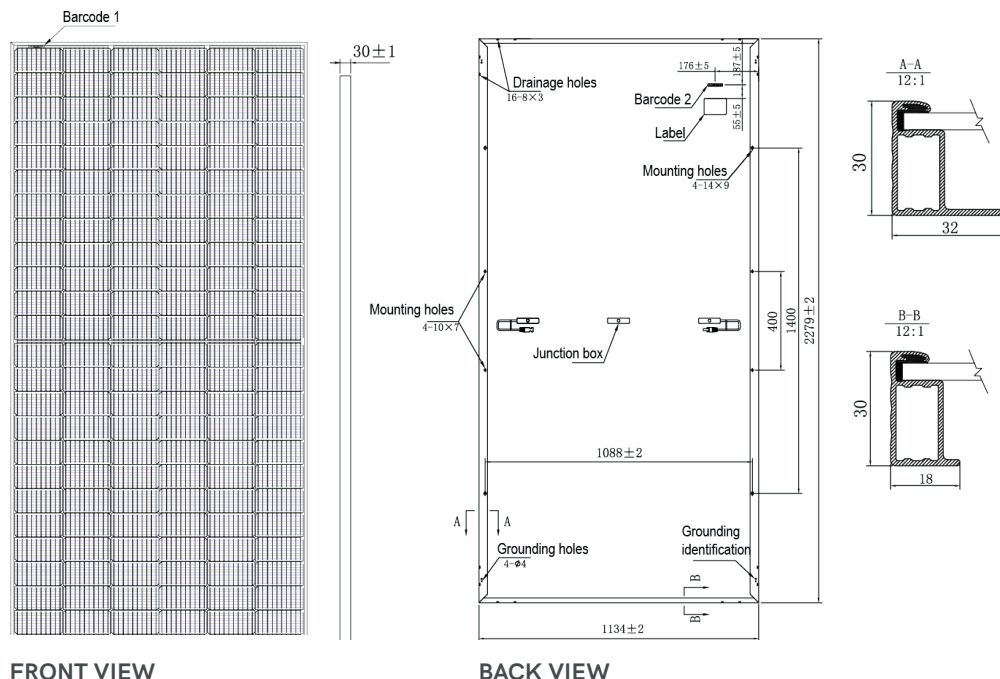
WWW.SUNLAR.CO.ZA

INFO@SUNLAR.CO.ZA

SALES@SUNLAR.CO.ZA



DIMENSIONS OF PV MODULE (MM)

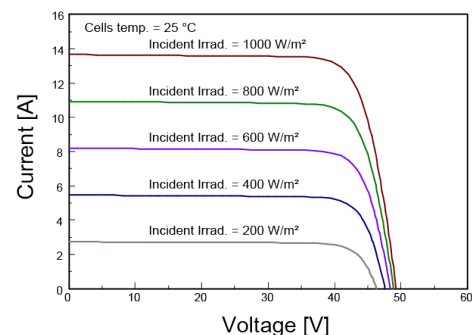


FRONT VIEW

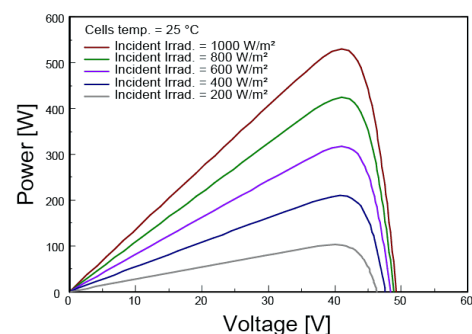
*Remark: customized frame colour and cable length available upon request, minimum quantity applies.

BACK VIEW

I-V CURVES OF PV MODULES (545W)



P-V CURVES OF PV MODULE (545W)



ELECTRICAL CHARACTERISTICS STC*			
Nominal Power Watt Pmax(W)*	540	545	550
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	41.40	41.60	41.80
Maximum Power Current Imp(A)	13.05	13.11	13.16
Open Circuit Voltage Voc(V)	49.70	49.90	13.9
Short Circuit Current Isc(A)	13.78	13.84	13.9
Module Efficiency (%)	20.89	21.09	21.28

*The data above is for reference only and the actual data is in accordance with the practical testing
 *STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25^oC, AM 1.5
 *Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTICS NMOT			
Maximum Power Pmax(Wp)	403.50	407.20	410.80
Maximum Power Voltage Vmp(V)	38.50	38.50	38.90
Maximum Power Current Imp(A)	10.48	10.52	10.57
Open Circuit Voltage Voc(V)	46.40	46.60	46.80
Short Circuit Current Isc(A)	11.13	11.18	11.23

*NMOT: Irradiance 800W/m², Ambient Temperature 20^oC, AM 1.5, Wind Speed 1m/s

MECHANICAL DATA	
Solar Cells	Mono PERC
Mono PERC	144 (6×24)
Module Dimension	2279×1134×30 mm (With Frame)
Weight	31.5±1.0 kg
Glass	2.0 mm+2.0 mm, High Transmission, AR Coated Heat Strengthened Glass
Junction Box	IP 68, 3 diodes
Cables	4 mm ² , 350 mm (With Connectors)
Connectors*	MC4-compatible

*Please refer to regional datasheet for specified connector

TEMPERATURE RATINGS*	
NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

WORKING CONDITIONS	
Maximum System Voltage	1500 V DC
Operating Temperature	-0.35%/°C
Maximum Series Fuse	25 A
Front Side Maximum Static Loading	Up to 5400 Pa
Rear Side Maximum Static Loading	Rear Side Maximum Static Loading

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Caution:Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.



SCAN TO
SHOP ONLINE!



WWW.SUNLAR.CO.ZA

INFO@SUNLAR.CO.ZA

SALES@SUNLAR.CO.ZA

*Product pricing and specifications are subject to change without further notice.

