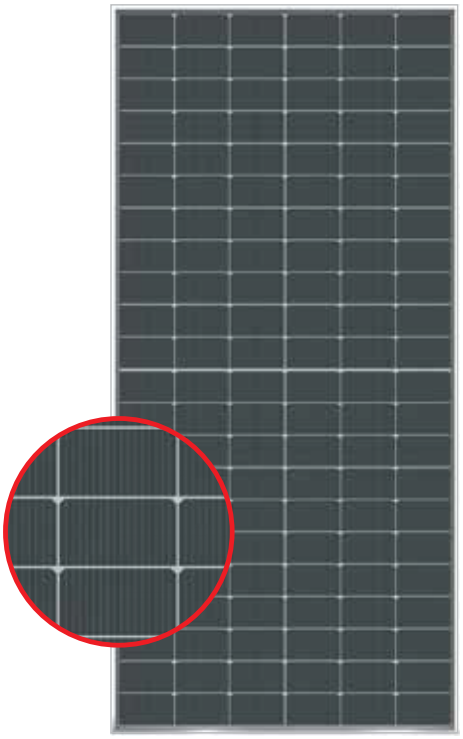
SAEL
SUSTAINABLE & AFFORDABLE ENERGY FOR LIFE

DUAL GLASS BIFACIAL MONOPERC MODULE-144 CELLS



SL144GTG-XXX M-
540-560 Wp

MonoPerc Technology

Low-Iron, Tempered Glass with AR Coating.

Quality Assurance

Pre and Post EL Checking to ensure defect free modules.

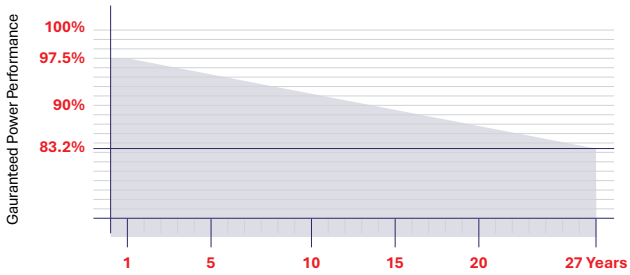
Enhanced Strength & Reliability

Designed to withstand front & rear side maximum static load.

Performance

Excellent performance under low irradiance.

WARRANTY & CERTIFICATIONS



12 YEARS WARRANTY
Product Warranty

1% 1ST YEAR
1st Year Degradation upto 2%

★★★★★ 2 - 30 YEARS
Linear Power Warranty upto 0.45% Degradation/year.

IEC 61215, IEC 61730, IEC 61701, IEC 62716, IEC 62804, IEC 60068-2-68, IEC 61853-1&2, IEC 63209-1, IS 14286, UL 61730, MCS*, PVCycle*

* In process

sales@sael.co www.sael.co 011 44910011

Follow us on:

SAEL
SUSTAINABLE & AFFORDABLE ENERGY FOR LIFE

PHYSICAL PARAMETERS

No of cells	144 Half cut - 10BB
Module Dimensions	2278 mm x 1134 mm
Module Thickness	30 mm
Approximate Weight	31.5 kg
Solar Cell Type	M10 (182.2 mm x 182.2 mm) / M10R (182.2 mm x183.75 mm)
Cable	No 12 AWG, 4 mm² 300 mm OR (Customize Length)
PV connector	MC4 Compatible
Frame	Anodized aluminium alloy
Junction Box	IP68 Split Junction Box with 3 bypass diodes (25A)
Glass Front	2.0 mm AR coated low iron
Glass Back	2.0 mm Low iron, Heat strengthened

ELECTRICAL PERFORMANCE

MODEL NAME	SL144GTG -540M	SL144GTG -545M	SL144GTG -550M	SL144GTG -555M	SL144GTG -560M
Maximum Pmax 0~4.99 (Wp)	540	545	550	555	560
Maximum voltage, Vmpp(V)	41.20	41.40	41.60	41.80	42
Maximum Current, Impp (A)	13.12	13.17	13.23	13.29	13.34
Open Circuit Voltage, Voc (V)	50.08	50.28	50.48	50.68	50.88
Short Circuit Current, Isc (A)	13.76	13.81	13.86	13.91	13.96
Module Efficiency (%)	20.92	21.11	21.31	21.50	21.69

STC: Irradiance 1000W/m2, Cell Temperature 25°C, AM=1.5,*Power measurement tolerance : ±3%

BNPI PERFORMANCE

MODEL NAME	SL144GTG -540M	SL144GTG -545M	SL144GTG -550M	SL144GTG -555M	SL144GTG -560M
Maximum Pmax 0~4.99 Wp	594.54	600.05	605.55	611.06	616.56
Maximum voltage Vmp (V)	41.20	41.40	41.60	41.80	42.00
Maximum Current, Impp (A)	14.45	14.50	14.57	14.63	14.69
Open Circuit Voltage Voc (V)	50.08	50.28	50.48	50.68	50.88
Short Circuit Current, ISC (A)	15.15	15.20	15.26	15.31	15.37

BNPI: Irradiance: front 1000W/m2, rear 135W/m2, Cell Temperature 25°C, AM=1.5,
Power measurement tolerance : ±3%

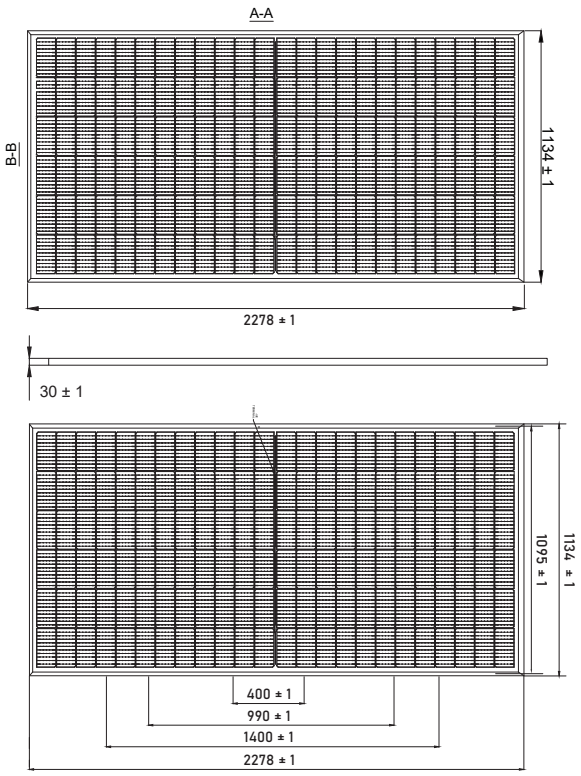
CONDITIONS

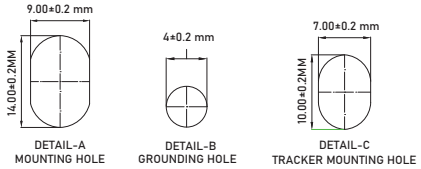
Operating Temp	-40 °C To +85 °C
Max System Voltage	1500 VDC
Max Series Fuse Rating	25 A
Temp Coefficient Pmax	-0.33 % / °C
Temp Coefficent Voc	-0.25 % / °C
Temp Coefficent Isc	+0.06 % / °C
Bifaciality Factor	80 ± 5 %
Norminal Operating Cell Temperature (NOCT)	43 ± 2 °C

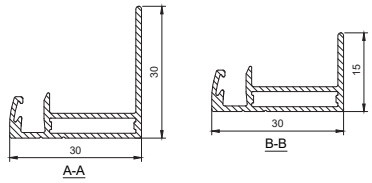
PACKAGING DATA

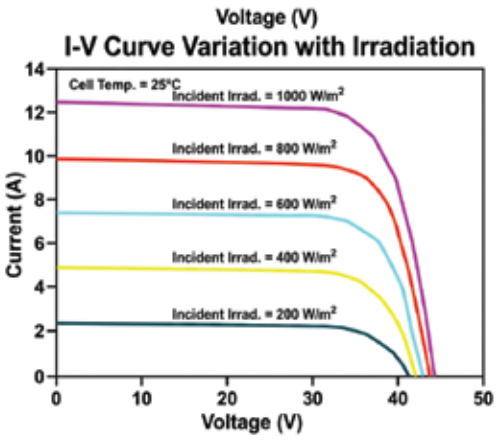
Pallet Dimensions	2295 mm x 1130 mm x 1290 mm
Packing Detail (Two pallets = One stack)	36 pcs/ pallet, 72 pcs/ stack, 720 pcs/ 40'HQ Container
Pallet Weight	1195kg

ENGINEERING DRAWINGS









*All values are within +/- 1% tolerance.

Caution: Please read safety and installation instructions before using the product. ***Warranty:** Linear power warranty for 27 years. **Performance Warranty:** 80% at the end of 27 years. Please read SAEL warranty documents thoroughly. **Disclaimer:** Due to constant product modifications and innovation, SAEL reserves the right to amend the above specifications without prior notice. Datasheet/Electrical data given here is for reference purpose only @ T& C Apply

sales@sael.co www.sael.co 011 44910011 Follow us on: