

FRONTSIDE OUTPUT 550 WATT

SOVA SOLAR
ENERGISING THE FUTURE...

Upto 25% more output with Rear side

NEW TECHNOLOGY TRANSPARENT BACKSHEET BIFACIAL MODULES

Positive power tolerance upto +4.99 Wp

APPLICATION

- On-grid system
- BIPV
- Solar Farms
- Standalone (off-grid)
- Systems
- Battery charging
- Solar Water Pumping

Key Features



Module power increases 5-25% &
LCOE reduces significantly
Bifacial module with **Transparent Backsheet**



Less power loss by minimizing
Shading effect



10BB **Technology** for better current
conduction & improves Module output



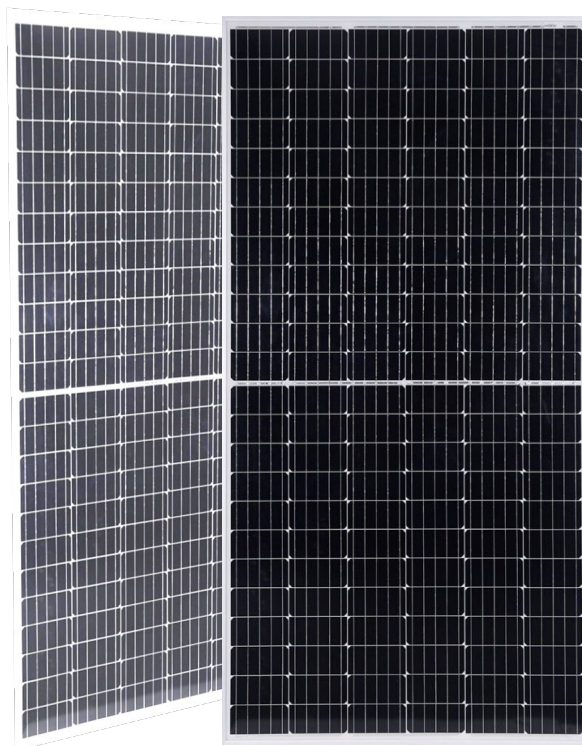
Longer **Life** power yield



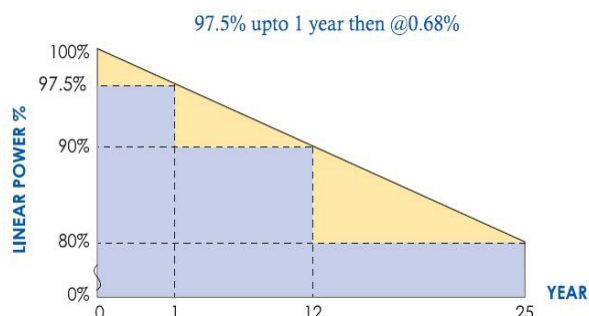
Excellent performance at low **Light**
Condition



Sustain heavy snow **Load** (5400pa)
& wind **Load** (2400pa)



LINEAR PERFORMANCE WARRANTY

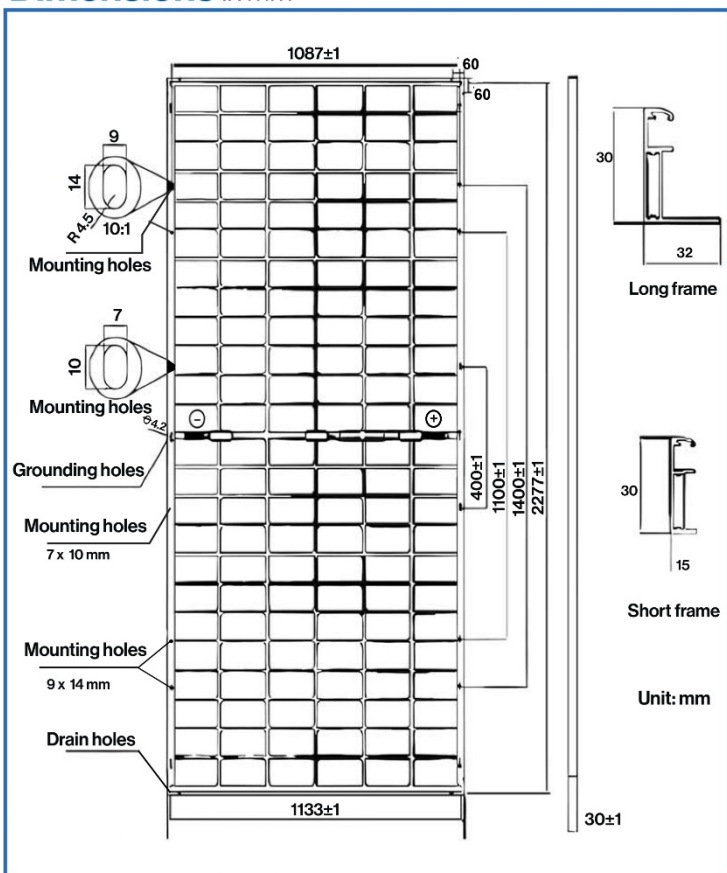


12 Year Product Warranty

25 Year Linear Power Warranty

0.68 % Annual Degradation Over 25 years

Dimensions in mm



MECHANICAL CHARACTERISTICS

Cell Type	P type Mono-crystalline PERC
No. of cells	144 (6*24)
Dimensions	2277 x 1133 x 30 ± 1 mm
Weight	27.75 Kg
Front Glass	3.2 mm ARC Low Iron tempered
Back Sheet	Transparent
Frame	Anodized Aluminium Alloy
Mounting Hole (Oblong)	9*14 & 7*10 ± 1mm
Mounting Hole CTC distance – vertical	1400, 1100, 400 ± 1mm
Mounting Hole from corner	438.5, 588.5, 938.5 ± 1mm
Mounting Hole CTC distance- horizontal	1087 ± 1mm
Junction Box	IP68 Rated
Output Cables	+1200 mm, -1200 mm

OPERATING PARAMETERS

Max. System Voltage	DC 1500V
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	30A
Front Static Load	5400Pa(112lb/ft ²)
Back Static Load	2400Pa(50lb/ft ²)
Bifaciality	70%±10%

ELECTRICAL CHARACTERISTICS

Module Type	SS550144HCMP
Maximum Power at STC (Pmax)	550 Wp
Optimum Operating Voltage (Vmp)	41.77
Optimum Operating Current (Imp)	13.17
Open Circuit Voltage (Voc)	49.85
Short Circuit Current (Isc)	13.93
Module Efficiency	21.32%

Pmax uncertainty value at STC is ±3%.

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

Rear side Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	577	632	687
Optimum Operating Voltage (Vmp)	41.82	41.84	41.85
Optimum Operating Current (Imp)	13.80	15.11	16.43
Open Circuit Voltage (Voc)	49.85	49.85	49.85
Short Circuit Current (Isc)	14.63	16.02	17.42
Module Efficiency	22.37%	24.50%	26.63%

TEMPERATURE CHARACTERISTICS(As per IEC test report)

Nominal Module Operating Temperature (NMOT)	40.4°C
Temperature Coefficient of Pmax (γ)	-0.3384 %/°C
Temperature Coefficient of Voc (β)	-0.2662 %/°C
Temperature Coefficient of Isc (α)	0.0615 %/°C

Certifications

- IEC 61215:2021, IS 14286
- IS/ IEC 61730:2016 Part 1 & 2
- IEC 62716:2013
- IEC 62804-1:2015
- IEC 61701:2020
- IEC 61853-1:2011
- IAM, LETID, LID