

NIKKO TOPCON MBB SERIES

PV MODULES WITH X-FACTOR

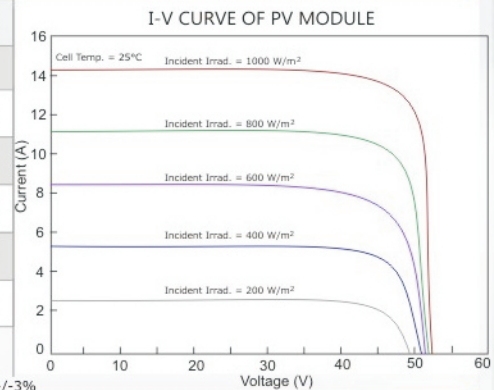
BIFACIAL TRANSPARENT BACKSHEET MODULES

560 – 590W N-TYPE TOPCON - 72 x 2 Half Cut Cells



ELECTRICAL PARAMETERS AT STC

Model	ALP24L 560WM	ALP24L 565WM	ALP24L 570WM	ALP24L 575WM	ALP24L 580WM	ALP24L 585WM	ALP24L 590WM
Peak Power [Pmax(Wp)] (0 ~ +4.99 Wp)	560	565	570	575	580	585	590
Max. Power Voltage (Vmp) [V]	42.30	42.50	42.70	42.90	43.10	43.30	43.50
Max. Power Current (Imp) [A]	13.24	13.30	13.35	13.41	13.46	13.52	13.57
Open Circuit Voltage (Voc) [V]	50.60	50.80	51.00	51.20	51.40	51.60	51.80
Short Circuit Current (Isc) [A]	13.91	13.97	14.03	14.09	14.15	14.21	14.27
Module Efficiency (%)	21.64	21.84	22.03	22.22	22.42	22.61	22.80
Maximum System Voltage (V DC)	1500	1500	1500	1500	1500	1500	1500



* STC: Irradiance 1000W/m2, Cell Temperature 25°C, AM1.5. All other parameters have a tolerance of +/-5%, Measurement Uncertainty +/-3%

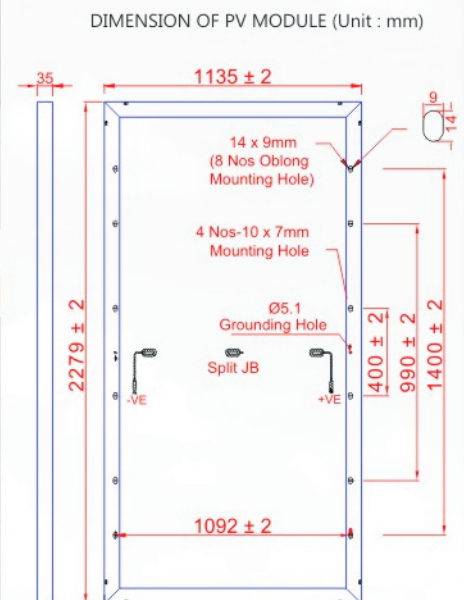
BIFACIAL GAIN

Power Gain(%)	Pmax	ALP24L 560WM	ALP24L 565WM	ALP24L 570WM	ALP24L 575WM	ALP24L 580WM	ALP24L 585WM	ALP24L 590WM
10%	Pmax	616.0	621.5	627.0	632.5	638.0	643.5	649.0
15%	Pmax	644.0	649.8	655.5	661.3	667.0	672.8	678.5
20%	Pmax	672.0	678.0	684.0	690.0	696.0	702.0	708.0
25%	Pmax	700.0	706.2	712.5	718.7	725.0	731.2	737.5
30%	Pmax	728.0	734.5	741.0	747.5	754.0	760.5	767.0

- Bifaciality Power = Pmax rear / Pmax front both are tested under STC. Measuring Tolerance +/-5%
- Bifacial gains depends on the power plant design (Mounting structure, height, tilt angle etc.) and albedo of installation site

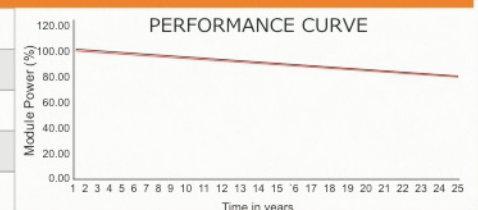
MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	2279 mm X 1135 mm X 35 mm
Weight	28.5 Kg
Junction Box	Split JB, IP67/68 Rated with 3 Bypass Diodes
Cable & Connectors	Solar Cable 4.0 mm ² , 300 mm (MC4 Compatible) or Customized Length
Application Class	Class A (Safety Class II)
Superstrate	High Transmission, Low Iron Tempered Glass, AR Coated
Solar Cells	TOPCON CELLS – MBB [182 mm x 91 mm -144 pcs Half Cut]
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back Sheet	High Transparent Backsheet
Frame	Anodized Aluminium Frame
Mechanical Load Test	5400 Pa (Snow Load), 2400 Pa (Wind Load)
Max. Series Fuses Rating	30 A



TEMPERATURE COEFFICIENTS (TC) AND PERMISSIBLE OPERATING CONDITIONS

NOCT	42°C ±3°C
Coefficient of Power (Pmax)	-0.31%/°C
Coefficient of Voltage (Voc)	-0.26%/°C
Coefficient of Current (Isc)	0.04%/°C
Temperature Range	-40°C to +85°C



PACKAGING CONFIGURATION

Container Size	40' HC
Modules per Pallet	31 Pieces
Modules per Container	620 Pieces (20 Pallets)

WARRANTY AND CERTIFICATIONS

Performance*	Power output of 90% at the end of 10 Years and 80% at the end 25 Years
Approvals and Certificates	ALMM / IEC / BIS

* Due to constant product modifications, Alpex reserves the right to amend the above specifications without prior notice.

Alpex Solar Limited (ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company)

Plot No.-I-25 & I-26, Site-5, Surajpur
Industrial Area, Kasna, Greater Noida – 201306,
District: Gautam Budh Nagar, Uttar Pradesh, (India)

Toll Free: 1800 11 2573
Email: info@alpexonline.com
Website: www.alpexsolar.com

Delhi | Jaipur | Kolkata | Ludhiana | Mumbai | Tirupur | Seoul | Sydney