

NIKKO TOPCON N-TYPE BIFACIAL TOPCON

PV MODULES 560Wp - 590Wp

KEY FEATURES

- MBB Half-Cut TOPCon Cell Technology.
- Increased Power Generation with Transparent Backsheet.
- Reduced LCOE (Levelized Cost of Electricity) with Increased ROI.
- Controlled Temperature Coefficient for Higher Efficiency
- Exceptional Power Generation Under Shaded Environments
- Nikko [Sunshine in Japanese] is Bleeding Edge Japanese Inspired PV Technology

10
YEARS

90%
POWER OUTPUT
GENERATION

25
YEARS

80%
POWER OUTPUT
GENERATION

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CERTIFICATIONS



IEC 61215, IEC 61730

UL 61730

ISO 9001:2015 | QUALITY MANAGEMENT

ISO 14001:2015 | ENVIRONMENTAL MANAGEMENT

ISO 45001:2018 | OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT

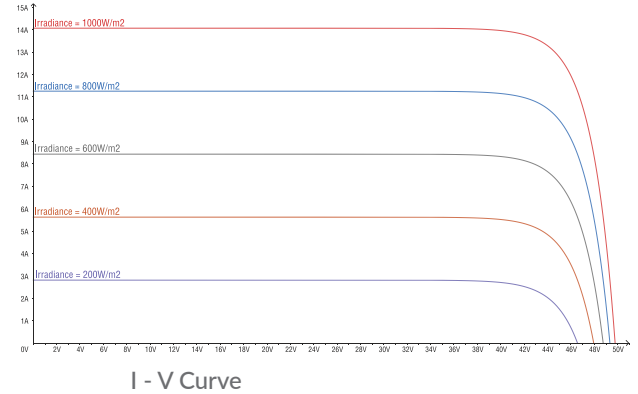
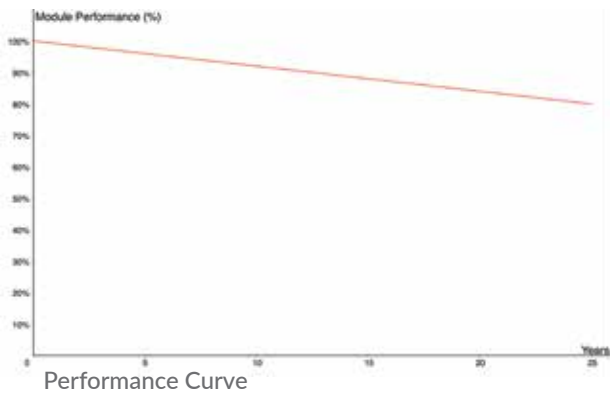


NSE-EMERGE: ALPEXSOLAR

alpexsolar.com

ELECTRICAL PARAMETERS AT STC

Model	ALP24L 560WM-T	ALP24L 565WM-T	ALP24L 570WM-T	ALP24L 575WM-T	ALP24L 580WM-T	ALP24L 585WM-T	ALP24L 590WM-T
Peak Power (Pmax) [W] (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
Bifacial Gain - 10%	616.0	621.5	627.0	632.5	638.0	643.5	649.0
Bifacial Gain - 20%	672.0	678.0	684.0	690.0	696.0	702.0	708.0
Bifacial Gain - 30%	728.0	734.5	741.0	747.5	754.0	760.5	767.0
Maximum System Voltage (V DC)	1500	1500	1500	1500	1500	1500	1500
*STC: 25°C CELL TEMPERATURE 1000W/M2 IRRADIANCE AM1.5 SPECTRUM **RATING TOLERANCE AT STC (VOC / ISC)(%) : ±5 / ±5 MEASUREMENT UNCERTAINTY: ±3%							



THERMAL CHARACTERISTICS & OPERATING CONDITIONS

NOCT	: 45°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/Pallet	: 36 Pieces
Modules/Container	: 720 Pieces (20 Pallets)

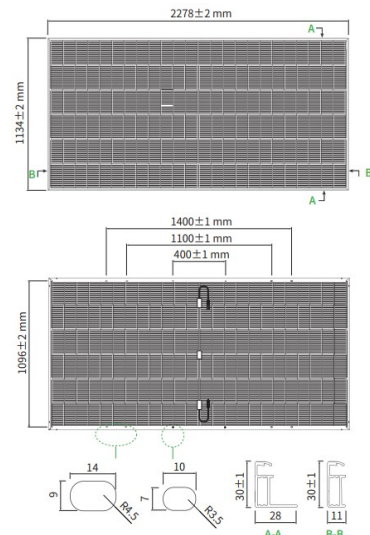
WARRANTY

PRODUCT WARRANTY	: 10 Years
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PERFORMANCE WARRANTY: Linear Power Warranty for 25 years with 1% degradation for 1st year

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	: 2278 mm X 1134 mm X 30 mm
Weight	: 31 Kg
Junction Box	: IP 68, Split Junction Box with Individual Bypass Diodes
Cable & Connectors	: 4.0mm2 Solar Cable, 300mm, MC4 Compatible/Connectors
Application Class	: Class A (Safety Class II)
Superstrate	: 2.0mm/3.2mm High Transmission, Low Iron, ARC Tempered Glass
Cell Technology	: N-Type TOPCon 182x91mm - MBB 144 Cells
Cell Encapsulation	: EVA / EPE / POE
Rear Cover Substrate	: 2.0mm Toughened Low Iron Glass / Transparent Backsheet
Frame	: Silver / Black Anodized Aluminium
Mechanical Load Test	: 5400 Pa (Snow load), 2400 Pa (Wind load)
Max. Series Fuse Rating	: 30 A



Specifications Included in this datasheet are subject to change without notice. Please confirm your exact requirements with your company representative before placing your order.