

NIKKO MBB SERIES

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PV MODULES WITH X-FACTOR

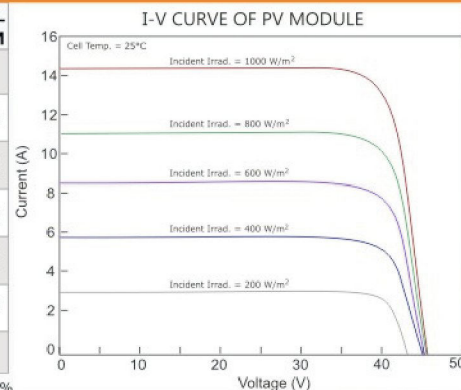
480 – 515W Mono PERC Crystalline - 66 x 2 Half Cut Cells



ELECTRICAL PARAMETERS AT STC

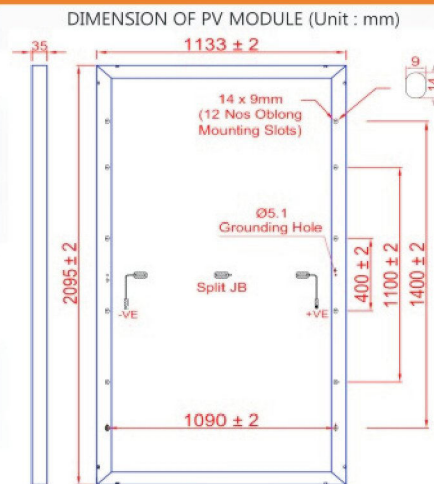
Model	ALP22L 480WM	ALP22L 485WM	ALP22L 490WM	ALP22L 495WM	ALP22L 500WM	ALP22L 505WM	ALP22L 510WM	ALP22L 515WM
Peak Power [Pmax(Wp)] (0 ~ +4.99 Wp)	480	485	490	495	500	505	510	515
Max. Power Voltage (Vmp) [V]	37.02	37.23	37.44	37.66	37.83	38.04	38.27	38.46
Max. Power Current (Imp) [A]	12.97	13.03	13.09	13.15	13.22	13.28	13.33	13.40
Open Circuit Voltage (Voc) [V]	44.53	44.74	44.91	45.13	45.32	45.53	45.71	45.92
Short Circuit Current (Isc) [A]	13.58	13.65	13.73	13.80	13.87	13.93	13.99	14.04
Module Efficiency (%)	20.22	20.43	20.64	20.85	21.06	21.28	21.49	21.70
Maximum System Voltage (V DC)	1500	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%



MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	2095 mm x 1133 mm x 35 mm
	26 Kgs
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, AR Coated Tempered Glass
Solar Cells	Mono PERC Crystalline – MBB [132 pcs Half Cut]
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back Sheet	Multilayered Back Sheet
Frame	Anodized Aluminium Frame
Mechanical Load test	5400 Pa (Snow Load), 2400 Pa (Wind Load)
Max. Series Fuses Rating	25A



TEMPERATURE COEFFICIENTS (TC) AND PERMISSIBLE OPERATING CONDITIONS

NOCT	45°C ±2°C
Coefficient of Power (Pmax)	-0.35%/°C
Coefficient of Voltage (Voc)	-0.27%/°C
Coefficient of Current (Isc)	0.045%/°C
Temperature Range	-40°C to +85°C



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

* Refer to Alpex Modules Warranty Document

PACKAGING CONFIGURATION

Container Size	40' HC
Modules per Pallet	31 Pieces
Modules per Container	682 Pieces (22 Pallets)

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

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