

MBB Monocrystalline

M10 HALF CELL TECHNOLOGY

M10 size half cell technology that increases the energy production of the module.

570-590W

Output Power

22.84%

Maximum Efficiency

Anti-PID Guarantee

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology & material control.

Hot-Spot Resistance

High protection against Hot-Spot formation with lower internal current and power usage.

12 Years Product Warranty

30 Years Linear Performance Guarantee

IEC 61215
IEC 61730
IEC TS 62941

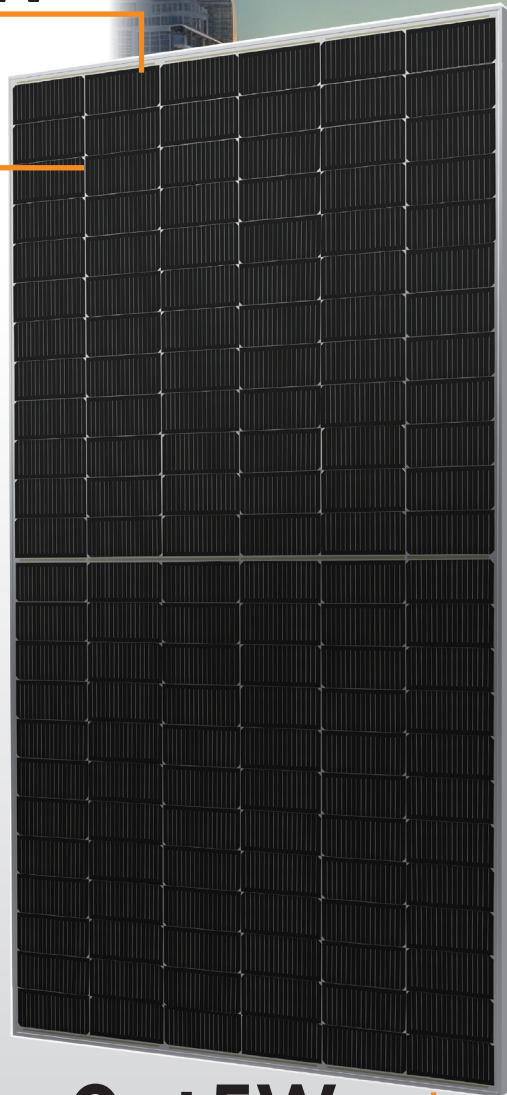
(PV Quality Management System)

ISO9001:2015
(Quality Management System)

ISO14001
(Environmental Management System)

ISO45001
(Occupational Health and Safety System)

ISO50001
(Energy Management System)



0~+5W

Power Tolerance

WITH DUAL-SIDED GLASS

N-Type Technology

N-Type modules with Tunnel Oxide Passivating Contacts (TOPCon) technology offer lower LID/LeTID degradation & better low light performance.

HOT 3.0 Technology

N-Type modules with HOT 3.0 Technology offer better reliability & efficiency.

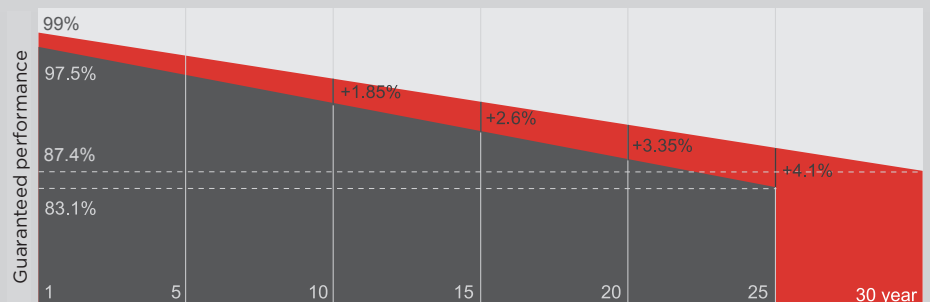
DUAL-SIDED POWER

GENERATION

Dual-Sided power generation gain increases with back side exposure to light, significantly reducing LCOE.

Multi Busbar Technology

Ability to benefit more from the Sunlight and collect stronger current with 16 Busbar (BB) Cell Technology. Improved effect on output power and reliability.



■ Alarko's New Linear Warranty

■ Standard Linear Warranty



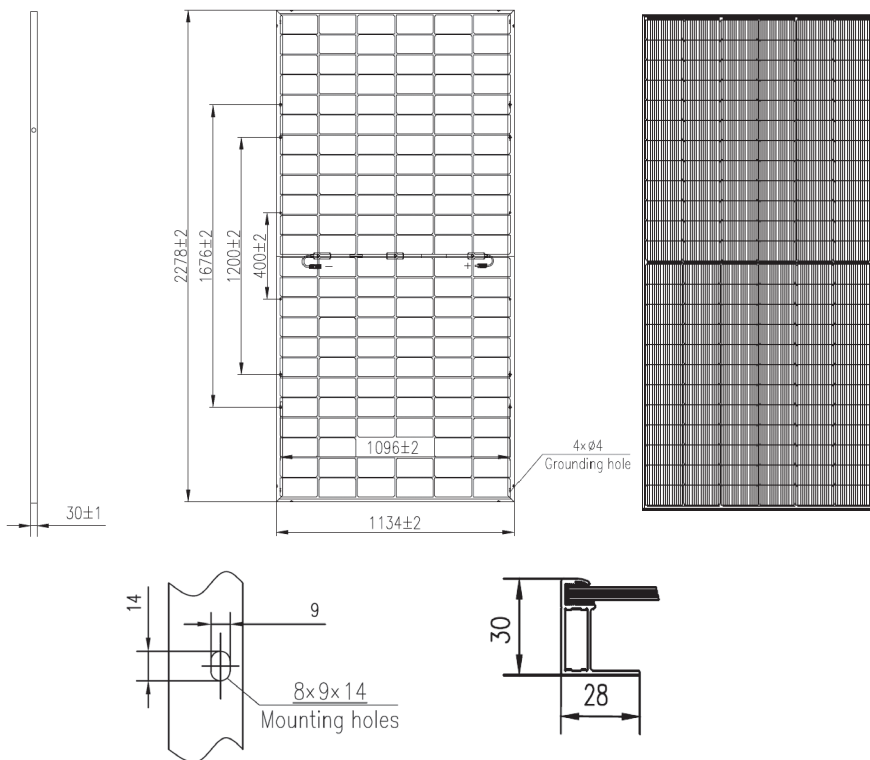
22.84%
MAX. MODULE
EFFICIENCY

0~+5W
POWER
TOLERANCE

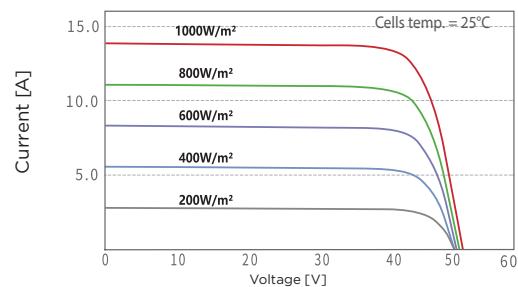
<1.0%
FIRST YEAR'S
POWER DEGRADATION

0.40%
YEAR 2-30 POWER
DEGRADATION

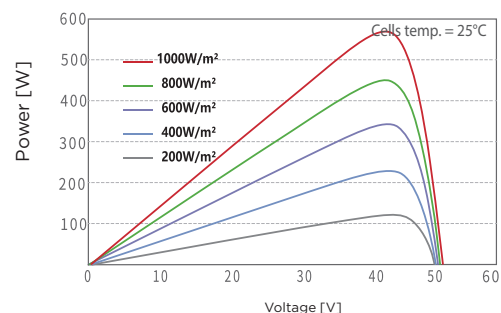
PV Module Dimensions (mm)



I - V Curves of PV Module



P - V Curves of PV Module



ELECTRICAL PARAMETER(STC)

Model	570B	575B	580B	585B	590B
Maximum Power	570	575	580	585	590
Working Point Voltage (Vmp)	42.33	42.48	42.63	42.78	42.91
Working Point Current (Imp)	13.47	13.54	13.61	13.68	13.75
Open Circuit Voltage (Voc)	50.85	51.00	51.15	51.30	51.45
Short Circuit Current (Isc)	14.31	14.38	14.45	14.52	14.59
PV Modul Efficiency	22.07%	22.26%	22.45%	22.65%	22.84%
Standart Test Conditions	Atmospheric quality Am 1.5, Irradiance 1000w/m², Cell Temperature 25°C				

MECHANICAL SPECIFICATIONS

Cell Type	N-Type Mono-16B
Module Dimensions	2278 x 1134 x 30 mm
Number of Solar Cells and Cell Sizes	144 PCS (2x6x12)
Weight	31.8 kg
Junction Box	IP68
Solar Cables	4mm², + 300mm & -400 mm (Customizable)
Front Glass	2.0 mm, Anti-Reflection (coating)
Back Glass	2.0 mm, Heat Strengthened glass
Static load on the front	5400 Pa
Static load on the back	2400 Pa
Frame	Anodized Aluminium Alloy

ELECTRICAL CHARACTERISTICS WITH 10%

Model	570B	575B	580B	585B	590B
Maximum Power	630	635	640	645	650
Working Point Voltage (Vmp)	42.87	43.02	43.17	43.17	43.45
Working Point Current (Imp)	14.70	14.76	14.82	14.89	14.96
Open Circuit Voltage (Voc)	51.08	51.23	51.38	51.53	51.68
Short Circuit Current (Isc)	15.82	15.88	15.94	16.01	16.08
Irradiation Ratio (rear/front)	10%				

TEMPERATURE PARAMETERS

NMOT	42±2°C
Temperature coefficient of maximum power (Pmax)	-0.30%/°C
Temperature coefficient of open circuit voltage (Voc)	-0.26%/°C
Temperature coefficient of short circuit voltage (Isc)	0.04%/°C

MAXIMUM RATINGS

Working temperature	-40 - +85°C
Maximum system voltage	1500VDC
Maximum fuse rated current	30A

PACKAGING & TRANSPORT

40'HQ Container	36 Pcs/Box x 20 Box = 720 Pcs
17.5m Truck	36 Pcs/Box x 28 Box = 1008 Pcs