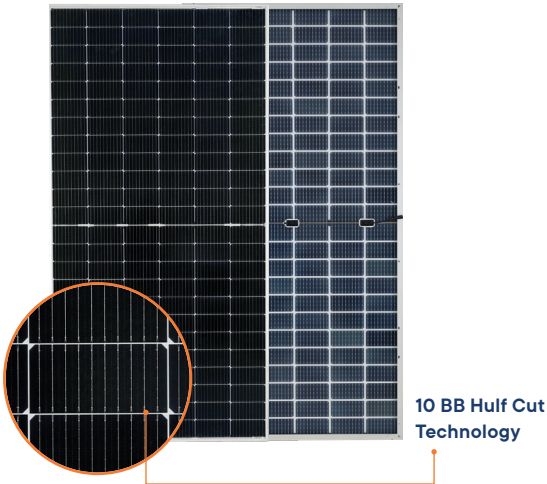


New Generation Solar Technology..

M10-144

TOPCON DOUBLE GLASS

N TYPE TOPCON
BIFACIAL HALF CUT
FRAMED MODULE



560 - 590 WATT



UP TO 25.11% EFFECTIVE MODULE EFFICIENCY



30 YEARS POWER OUTPUT WARRANTY



12 YEARS PRODUCT WARRANTY



Maximizing Efficiency with Bifaciality Effect

Bifacial module design that increases efficiency by generating electricity from the rear side as well as from the front side.



M10 Half Cut Cell Technology

M10-sized half-cell technology that enhances the energy production of the module.



TOPCon Technology

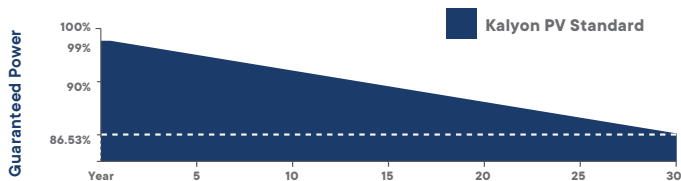
A new generation of N-type TOPCon technology cells that maximize energy production thanks to its advanced technology.



Excellent Performance

New generation modules that provide higher energy production compared to conventional modules of the same size with advanced technology solar cells.

PERFORMANCE WARRANTY



From the 2nd year to the 30th year, the average annual power degradation will be no more than 0.43%.

CERTIFICATES

ISO Certificates: ISO 9001 / ISO 14001 / ISO 45001 / ISO 50001 / ISO 27001

IEC Certificates: IEC 61215 : 2018 / IEC 61730-1 : (Expected)

UL Certificate: UL 61730-1-2 (Expected)



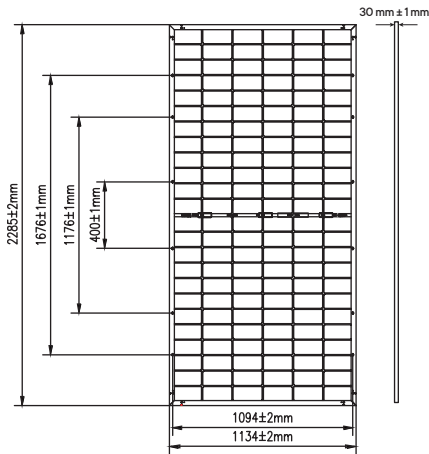
ISO Certified Quality Management System
www.kalyonpv.com



IEC Certified Production Conformance
www.kalyonpv.com



KY-560B-72H-TGF, KY-565B-72H-TGF, KY-570B-72H-TGF, KY-575B-72H-TGF, KY-580B-72H-TGF, KY-585B-72H-TGF, KY-590B-72H-TGF



STRUCTURAL PARAMETERS

Cell	Type	Mono-C Silicon Bifacial TOPCon	Module Size	Length	2285 mm ± 2 mm
	Number	144 Pcs Half Cut Cell		Width	1134 mm ± 2 mm
	Size	182 mm x 91 mm		Thickness	30 mm ± 1 mm
Junction Box	Bypass Diode	3 Pcs	Mounting Dimensions	Mounting Hole Number	12
	Degree of Protection	IP68		Mounting Hole Sizes	9 mm x 14 mm Radius 4.5 mm
	Cable Length	30 cm		Long Side Mounting Hole Spacing (Vertical Axis)	1676/1176/400 ± 1 mm
	Connector	MC4 Compatible		Long Side Mounting Hole Spacing (Horizontal Axis)	1094 ± 2 mm
	Rated Current	30 A		Weight	30 mm Frame 32 kg ± %5
Glass	AR Coating Half Tempered, 2.0 mm Thickness		Grounding Holes	Number	8
				Radius	L: 4 mm

ELECTRICAL PARAMETERS

Model	560		565		570		575		580		585		590	
Test Conditions	STC*	BNPI**	STC*	BNPI**	STC*	BNPI**	STC*	BNPI**	STC*	BNPI**	STC*	BNPI**	STC*	BNPI**
Maximum Power (Pmax) [W]	560	617.46	565	622.97	570	628.48	575	634.00	580	639.51	585	645.02	590	650.53
Open Circuit Voltage (Voc) [V]	51.09	51.28	51.12	51.31	51.15	51.34	51.18	51.37	51.21	51.40	51.24	51.43	51.27	51.46
Short Circuit Current (Isc) [A]	13.54	14.91	13.62	15.00	13.71	15.10	13.79	15.19	13.87	15.28	13.95	15.37	14.04	15.46
Maximum Power Voltage (Vmp) [V]	43.40	43.47	43.62	43.69	43.84	43.91	44.05	44.12	44.27	44.34	44.49	44.56	44.70	44.77
Maximum Power Current (Imp) [A]	12.90	14.20	12.95	14.26	13.00	14.31	13.05	14.37	13.10	14.42	13.15	14.48	13.20	14.53
PV Module Effective Efficiency [%]	21.61	23.83	21.80	24.04	22.00	24.25	22.19	24.47	22.38	24.68	22.58	24.89	22.77	25.11
Short Circuit Current (Isc) [A]***	16.61		16.71		16.81		16.91		17.02		17.12		17.22	
Bifaciality Rate [%]	+0.76 ± 0.03													

Measurement Tolerances are, For Pmax: ±%2.5, For Voc and Isc: ±%5.

* Standard Test Conditions (STC): Irradiance 1000 W/m², Air Mass 1.5, Module Temperature 25 °C. Measurement Tolerance ±2.5%.

** Values are given according to BNPI conditions. Bifacial nameplate irradiance is that which corresponds to 1000 W/m² on the module front, and 135 W/m² on the module rear.

*** Values are given according to BSI conditions. Bifacial stress irradiance, which corresponds to 1000 W/m² on the module front, and 300 W/m² on the module rear. Measurement Tolerance is, For Isc: ±%5.

BIFACIALITY COEFFICIENT

φPmax (%) Maximum Power Bifaciality Coefficient	0.76 ± 3%
φIsc (%) Short-Circuit Current Bifaciality Coefficient	0.77 ± 3%
φVoc (%) Open-Circuit Voltage Bifaciality Coefficient	0.99 ± 1%

WORKING CONDITIONS

System Voltage	1500 VDC	Maximum Static Mechanical Load	Negative	-3600 Pa
			Positive	+5400 Pa
Operating Temperature	-40 ~+ 85 °C	Fire Type: 29	Protection Type: Class II	Maximum Protection Current: 30 A

PS: The resistance load achievable when installation is performed according to the mounting type corresponding to the relevant maximum resistance load in the installation guide.

TEMPERATURE COEFFICIENTS

Isc Temperature Coefficient	+0.045 %/°C
Voc Temperature Coefficient	-0.25 %/°C
Pmax Temperature Coefficient	-0.30 %/°C

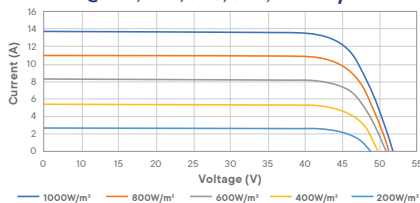
OPEN TRAILER PACKAGING

Number of Modules Per Pallet	30, 35
Number of Pallets Per Open Trailer	11, 21
Number of Modules Per Open Trailer	385, 735

CONTAINER PACKING

Container Type	40' HC	Number of Modules Per Pallet	30, 35
Number of Pallets Per Container	18 (max)	Number of Modules Per Container	540, 630

FRONT SIDE I-V CURVE
@200, 400, 600, 800, 1000 W/m²



REAR SIDE I-V CURVE
@1000W/m² ve 200 W/m²

