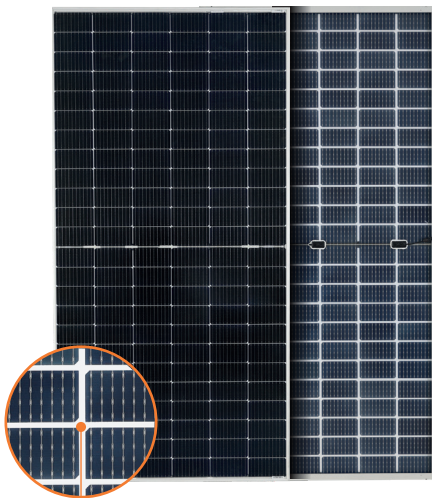





## M10-144 GLASS-TRANSPARENT BACKSHEET BIFACIAL HALF CELL FRAMED MODULE



10 BB Half Cell Technology

-  **525 - 545 WATT**
-  **UP TO 21.1% MODULE EFFICIENCY**
-  **UP TO 20% REAR SIDE ENERGY GAIN**
-  **30 YEARS POWER OUTPUT WARRANTY**
-  **12 YEARS PRODUCT WARRANTY**

### **Transparent Backsheet Technology**

Modules with highly reflective transparent backsheets provide more energy production in the field and they have a lightweight design.

### **High Performance with M10 Cell**

With large size M10 cells, power gain per module is increased and system installation costs are reduced.

### **Half Cut Technology**

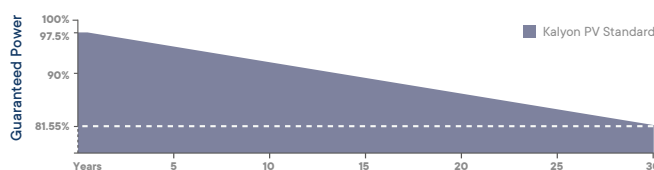
Half-cell PERC technology modules reduce power loss, while 3-piece junction box provides better performance in shadowing conditions.

### **Anti-PID Cells**

Long term and reliable field performance by Anti-PID PERC cells.

## PERFORMANCE WARRANTY

12 Years Product Warranty, 30 Years Power Output Warranty



From the 2<sup>nd</sup> year to the 30<sup>th</sup> year, the average annual power decline will be no more than 0.55%.

## CERTIFICATES

**ISO Certificates:** ISO 9001 / ISO 14001 / ISO 45001

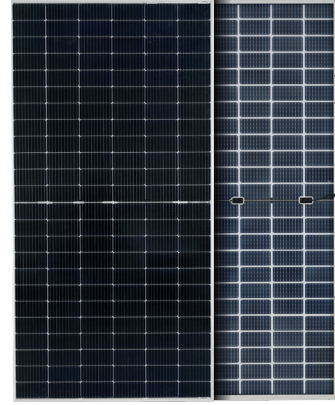
**IEC Certificates:** IEC 61215 : 2018 / IEC 61730-1 : 2018

IEC 61730-2 : 2018 / IEC 61701 / IEC 62716 / IEC 62804 PID

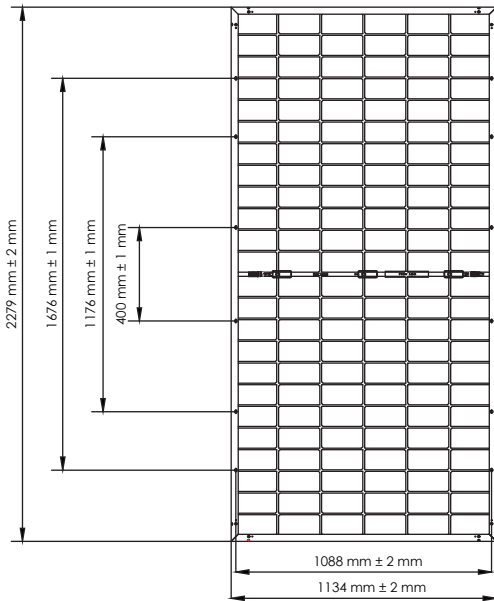
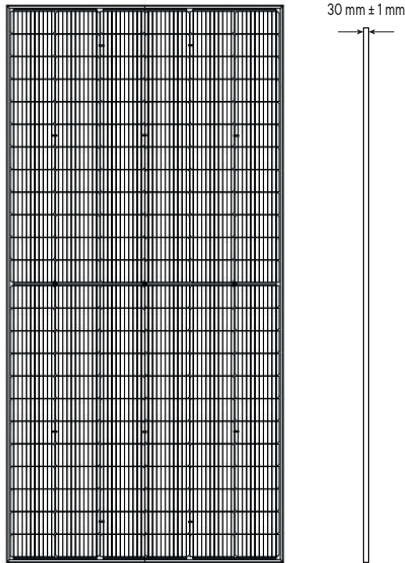


KY-525B-72H-GB, KY-530B-72H-GB

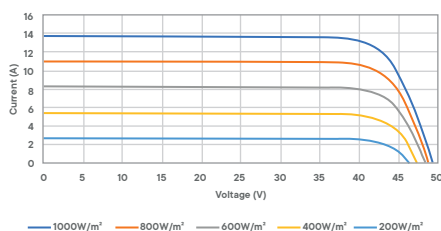
KY-535B-72H-GB, KY-540B-72H-GB, KY-545B-72H-GB



# M10-144 GLASS-TRANSPARENT BACKSHEET BIFACIAL HALF CELL FRAMED MODULE



**Front Side I-V Curve  
@200, 400, 600, 800, 1000 W/m<sup>2</sup>**



## STRUCTURAL PARAMETERS

Cell	Type	Mono-C Silicon Bifacial PERC	Module Size	Length	2279 mm ± 2 mm
	Number	144 pcs, Half Cut		Width	1134 mm ± 2 mm
	Size	182 mm x 91 mm		Thickness	40 mm ± 1 mm
Junction Box	Bypass Diode	3 Pcs	Mounting Holes	Number	12
	Degree of Protection	IP67/IP68		Size	9 mm x 14 mm Yarıçap 4.5 mm
	Cable Length	30 cm (Customizable)		Mounting Hole Spacing (Long Side)	1676/1176/400 ± 1 mm
	Connector	MC4 Compatible		Mounting Hole Spacing (Horizontal Axis)	1088 ± 2 mm
	Rated Current	25 A/30 A		Weight	40 mm Frame 27 kg ± 5%
Glass	AR Coating Half Tempered, 2.0 mm Thickness		Grounding Holes	Number	8
				Size	Diameter: 4 mm

## WORKING CONDITIONS

System Voltage	1500 VDC	Maximum Static Mechanical Load	Negative	3600 Pa
Operating Temperature	-40 ~+ 85 °C		Positive	5400 Pa
Maximum Protection Current	25 A/30 A	Nominal Modül Çalışma Sıcaklığı (NMOT)		45 ± 2 °C
		Fire Type: 1	Protection Type: Class II	

## ELECTRICAL PARAMETERS

Model	525		530		535		540		545	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Test Koşulları	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (W)	525	390	530	394	535	398	540	402	545	405
Open Circuit Voltage (V)	49.05	45.70	49.20	45.80	49.35	46.00	49.50	46.10	49.65	46.20
Short Circuit Current (A)	13.66	11.03	13.72	11.07	13.78	11.13	13.85	11.19	13.92	11.24
Working Point Voltage (V)	41.20	37.82	41.35	37.96	41.50	38.12	41.65	38.26	41.80	38.39
Working Point Current (A)	12.75	10.33	12.83	10.39	12.90	10.45	12.97	10.51	13.04	10.57
PV Module Efficiency (%)	20.31	18.86	20.51	19.06	20.70	19.25	20.89	19.44	21.09	19.59
Power Tolerance (W)	0 ~ +5									

\* Standard Test Conditions (STC): Irradiance 1000 W/m<sup>2</sup>, Air Mass 1.5, Module Temperature 25 °C, Measurement Tolerance ±2.5%.  
\*\* Nominal Module Operating Temperature (NMOT): Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1 m/s.

## BIFACIALITY GAIN AND EFFICIENCY

Model		525	530	535	540	545
5% Bifacial Gain	Maximum Power (W)	551.3	556.5	561.8	567.0	572.3
	Efficiency (%)	21.33	21.53	21.74	21.94	22.14
15% Bifacial Gain	Maximum Power (W)	603.8	609.5	615.3	621	626.8
	Efficiency (%)	23.36	23.58	23.81	24.03	24.25
25% Bifacial Gain	Maximum Power (W)	656.3	662.5	668.8	675.0	681.3
	Efficiency (%)	25.39	25.63	25.88	26.12	26.36

## TEMPERATURE COEFFICIENTS

Isc Temperature Coefficient	+0.049 %/°C
Voc Temperature Coefficient	-0.28 %/°C
Pmax Temperature Coefficient	-0.37 %/°C