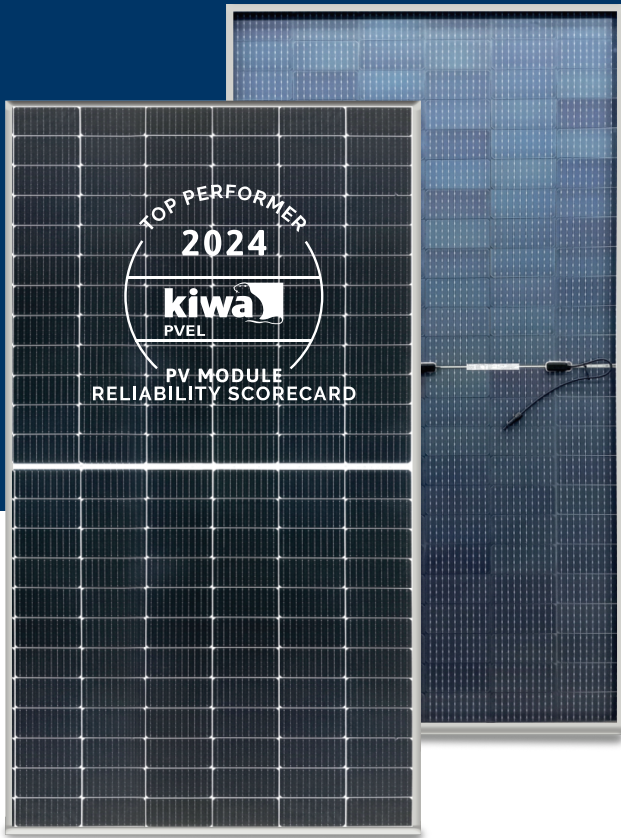




SOLAR PV MODULE

144 HALF CUT PERC CELL

BIFACIAL TRANSPARENT BACKSHEET M10+ 525-555 W
WITH NEW 182.2X183.75mm CELL 10BB

Suitable for



RESIDENTIAL



UTILITY



COMMERCIAL



OFF-GRID

Transition to a Brighter Tomorrow



SMBB TECHNOLOGY

Better light trapping and current collection to improve module power output and reliability



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR



Auto Bussing & Soldering Technology

Induction based Improved soldering quality without pollution to module



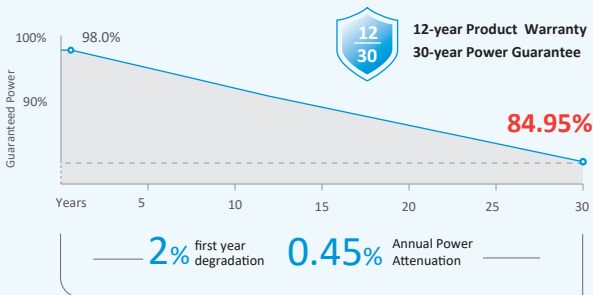
Enhanced Mechanical Load

Certified to withstand wind load (2400 Pascal) and snow load (5400 Pascal)



Positive power tolerance (0 to +5w)

Performance Warranty



Certification



IEC 62804 (PID) | IEC 61701 (Salt Mist) | IEC 62716 (Ammonia)

IEC 61853- 1&2 (Panfile & IAM) | LID, LETID | UL 61730

IEC 60068 (Sand & Dust) | IEC 61215 | IEC 61730

MADE WITH PREMIER ENERGIES M10 CELLS

M10-182MM WAFER, IDEAL FOR ULTRA-LARGE POWER PLANT

AVAILABLE IN ALL BLACK RANGE



Electrical Characteristics (STC)

MODULE TYPE	PE-525HB	PE-530HB	PE-535HB	PE-540HB	PE-545HB	PE-550HB	PE-555HB
Maximum Power, W (Pmp) ¹	525	530	535	540	545	550	555
Open Circuit Voltage, V (Voc) ¹	49.43	49.43	49.51	49.68	49.76	49.82	49.88
Short Circuit Current, A (Isc) ¹	13.63	13.70	13.82	13.94	13.99	14.06	14.12
Maximum Power Voltage, V (Vmp) ¹	40.93	41.02	41.11	41.21	41.30	41.38	41.41
Maximum Power Current, A (Imp) ¹	12.83	12.93	13.03	13.11	13.21	13.31	13.41
Module Efficiency, % (Eff)	20.32	20.52	20.71	20.90	21.10	21.29	21.48
Temperature Coefficients of Pmax ²	-0.32%/°C						
Temperature Coefficients of Voc ²	-0.30%/°C						
Temperature Coefficients of Isc ²	+0.045%/°C						

STC Irradiance 1000W/m², Module Temperature 25°C, AM1.5G

¹ Measurement Uncertainty : ±3%

² Due to different testing methods, the actual performances might marginally differ from the declared specifications.

Electrical Characteristics (NOCT)

MODULE TYPE	PE-525HB	PE-530HB	PE-535HB	PE-540HB	PE-545HB	PE-550HB	PE-555HB
Maximum Power, W (Pmp)	390	390	394	397	401	405	408
Open Circuit Voltage, V (Voc)	46.09	46.19	46.26	46.42	49.49	46.55	46.61
Short Circuit Current, A (Isc)	10.87	10.92	11.02	11.11	11.15	11.21	11.26
Maximum Power Voltage, V (Vmp)	37.98	38.06	38.15	38.24	38.32	38.40	38.42
Maximum Power Current, A (Imp)	10.17	10.24	10.32	10.39	10.46	10.53	10.62
Module Efficiency, % (Eff)	14.95	15.09	15.23	15.38	15.52	15.66	15.80

NOCT- Irradiance 800 W/m², Ambient Temperature 20°C AM1.5G, Wind speed 1m/s

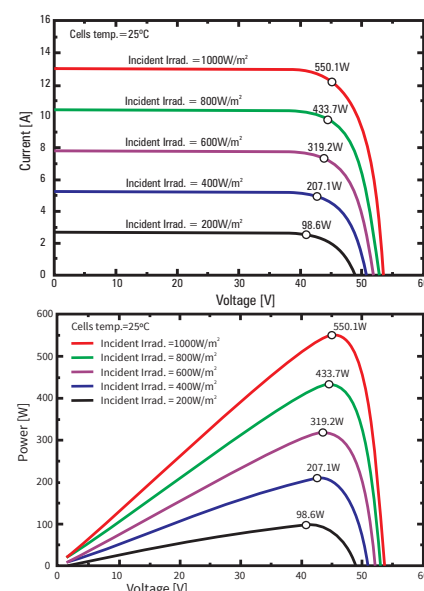
GAIN		PE-525HB	PE-530HB	PE-535HB	PE-540HB	PE-545HB	PE-550HB	PE-555HB
10%	Power Pmp	577.5	583.0	588.5	594.0	599.5	605.0	610.5
20%	Power Pmp	630.0	636.0	642.0	648.0	654.0	660.0	666
30%	Power Pmp	682.0	689.0	695.5	702.0	708.5	715.0	721.5

Bifacial gains depends on the power plant design & albedo of installation site

Measurement Uncertainty : ±3%

Temperature Characteristics

Operating Temperature	-40 °C ~ +85 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Nominal Operating Cell Temperature - NOCT	45±2 °C
Bifaciality factor	70 ± 10%

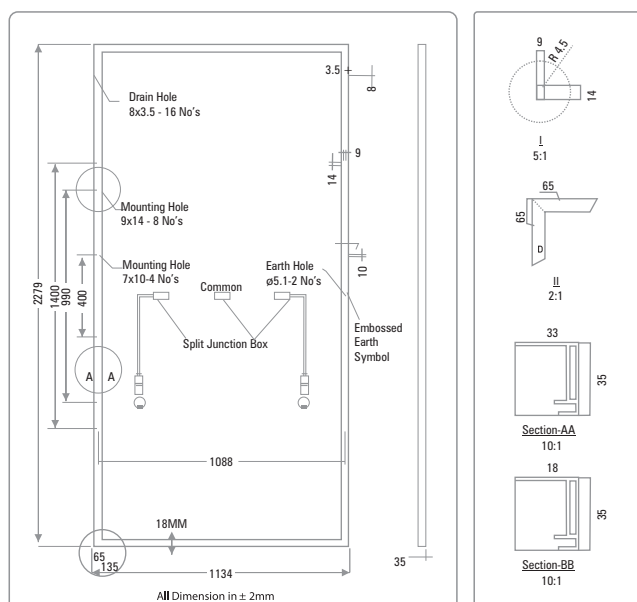


Mechanical Specifications

External Dimensions	2279(±2mm) x 1134 (±2mm) x 35(±1mm)
Weight	28 (± 3%) Kg
Solar Cells	10 BB, Mono PERC - crystalline 182.2 x 183.75mm ± 1mm
Front Glass	3.2 mm, High Transmission, Low Iron, Tempered Glass
Rear Cover	High Transparent Backsheet or White / Black Backsheet
Frame	Anodized Aluminium Alloy (Silver/Black)
Junction Box	3 Split, IP 68 Rated
Connector	Mc4 Compatible
Mechanical Load	5400 Pa For Snow Load, 2400 Pa Wind Load
Fire Performance	TYPE 4 (UL 61730) Or Class C (IEC 61730)
Output Cable	4.0 mm2 400 mm Length

Packing Configuration

Container	20'HQ	32'HQ	40'HQ
Pieces per Pallet	31	31	31
Pallets per Container	8	16	20
Pieces per Container	248	496	620



FIRST YEAR
DEGRADATION
< 2.0%

YEAR 2-30 POWER
DEGRADATION
< 0.45%

