



Selenso

HITek Z210R SERIES

108-cell Bifacial HIT Half-cell Double-glass Solar Module

495-520W

Efficiency up to

23.4%



Bifacial Mono Module

Capable of generating power at back side, at least 80% efficiency of the front side



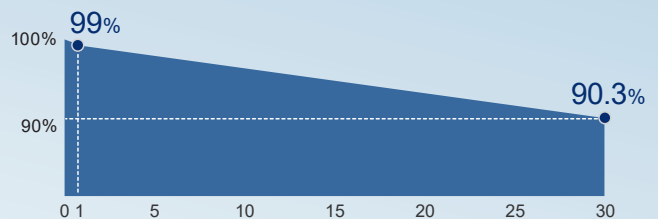
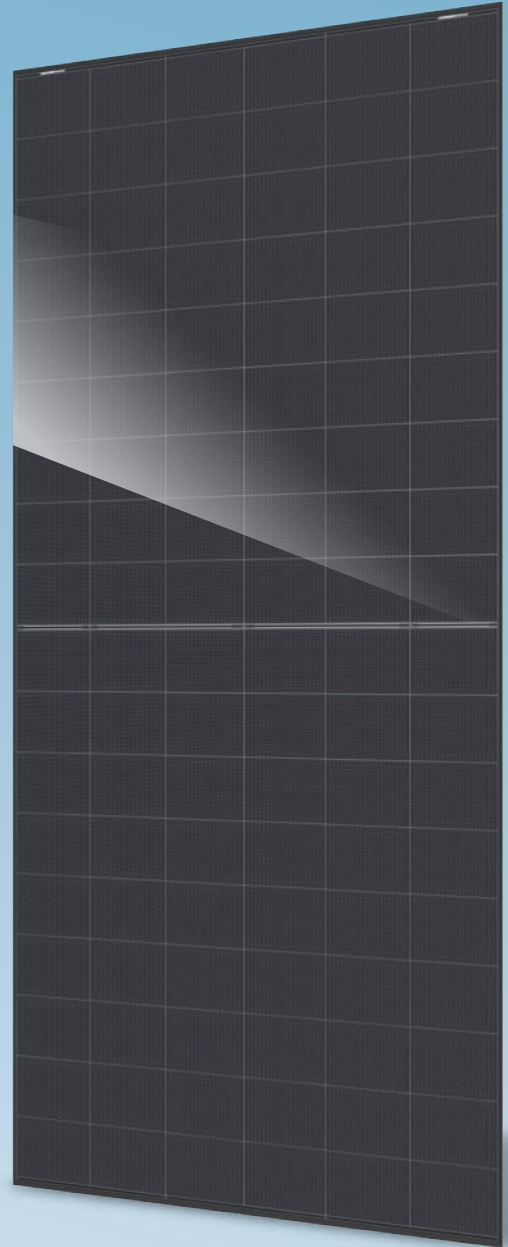
Ideal Choice for Rooftop System

Transparent gap film, bifacial power generation, suitable for various rooftop projects.



Sealing with PIB

Stronger moisture resistance, greater air impermeability to extend module lifespan.



- * First year power degradation $\leq 1\%$
- * Annual power degradation (2-30 year) $\leq 0.3\%$
- * Power output until the 30th year $\geq 90.3\%$

Certification

IEC 61215-1:2021	IEC 61730-2:2023
IEC 61215-1-1:2021	EN IEC 61215-1-1:2021
IEC 61215-2:2021	EN IEC 61215-1:2021
IEC 61730-1:2023	EN IEC 61215-2:2021

HITek-Z210R-108BT 495-520W

108-Half-Cell Bifacial HIT Module



MECHANICAL CHARACTERISTICS

Cell Type	HIT
No. of Cells	108 (6x18)
Dimensions	1960x1134x30mm
Weight	27.4 kg
Junction Box	IP68
Cable	4mm ² ; 1250mm or customized; UV resistant
Connector	MC4 / MC4-Evo2A / PV-H4 / Z4S-abcd / ST4
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 2.0mm

Electrical Characteristics

STC

HITek-Z210R-108	BT495	BT500	BT505	BT510	BT515	BT520
Maximum Power (Pmax/W)	495	500	505	510	515	520
Module Efficiency (%)	22.3	22.5	22.7	22.9	23.2	23.4
Voltage at Pmax (Vmp/V)	34.05	34.16	34.27	34.38	34.49	34.60
Current at Pmax (Imp/A)	14.54	14.64	14.74	14.84	14.94	15.04
Open Circuit Voltage (Voc/V)	40.65	40.76	40.87	40.98	41.09	41.20
Short Circuit Current (Isc/A)	15.37	15.48	15.59	15.70	15.81	15.92

STC: AM1.5, 1000W/m², 25°C.

BNPI

Maximum Power (Pmax/W)	555	560	566	571	577	583
Voltage at Pmax (Vmp/V)	34.17	34.28	34.39	34.50	34.61	34.72
Current at Pmax (Imp/A)	16.25	16.36	16.47	16.58	16.69	16.80
Open Circuit Voltage (Voc/V)	40.79	40.90	41.01	41.12	41.23	41.34
Short Circuit Current (Isc/A)	17.24	17.36	17.48	17.61	17.73	17.85

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT

Maximum Power (Pmax/W)	377	381	385	389	393	397
Voltage at Pmax (Vmp/V)	32.53	32.63	32.73	32.83	32.93	33.03
Current at Pmax (Imp/A)	11.62	11.70	11.78	11.86	11.94	12.02
Open Circuit Voltage (Voc/V)	38.80	38.90	39.01	39.11	39.22	39.32
Short Circuit Current (Isc/A)	12.28	12.37	12.46	12.55	12.64	12.72

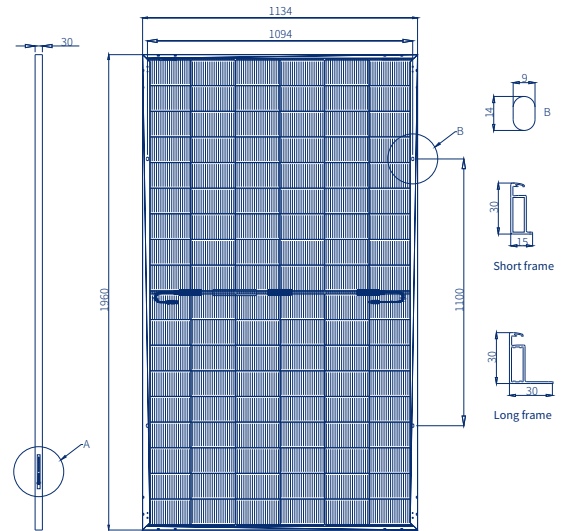
NOCT: AM1.5, 800W/m², 20°C, 1m/s.

PACKAGING

	40HQ
Modules Per Pallet	36
Pallets Per Container	24
Modules Per Container	864

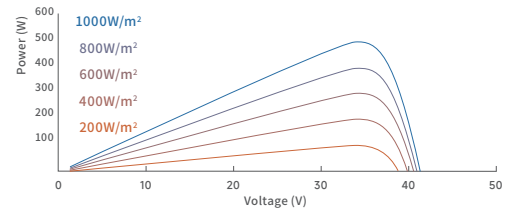
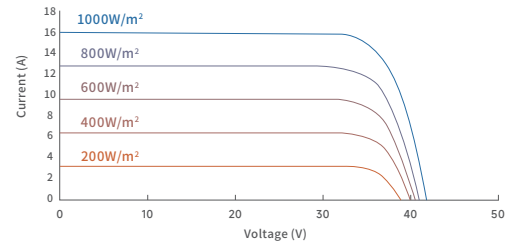
ENGINEERING DRAWINGS

Unit: mm



I-V Curve

(HITek-Z210R-108BT510)



TEMPERATURE COEFFICIENTS

Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.04%/°C

OPERATING CONDITIONS

Nominal Operating Cell Temp.	44±2°C
Operating Temperature	-40~+85°C
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifaciality	90±5%
Safety Class	Class II

