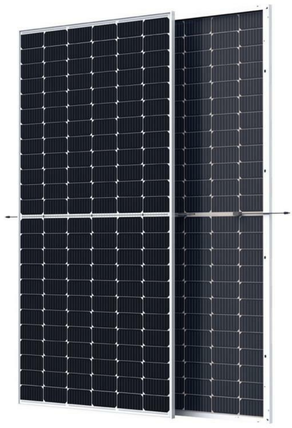
TEKO-144NBGH Series

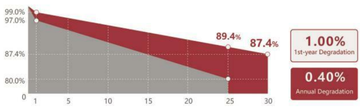
N-type HALF-CELL Bifacial Double Glass Monocrystalline Module

560-580W	22.45%	30 YEARS
POWER RANGE	MAXIMUM EFFICIENCY	POWER OUTPUT GUARANTEE



- Up to 30% additional power gain from rear side
- Higher Power Output
- N Topcon Technology
- SMBB Technology
- Zero LID
- Anti PID
- Better Temperature Coefficient
- Better Weak Illumination Response

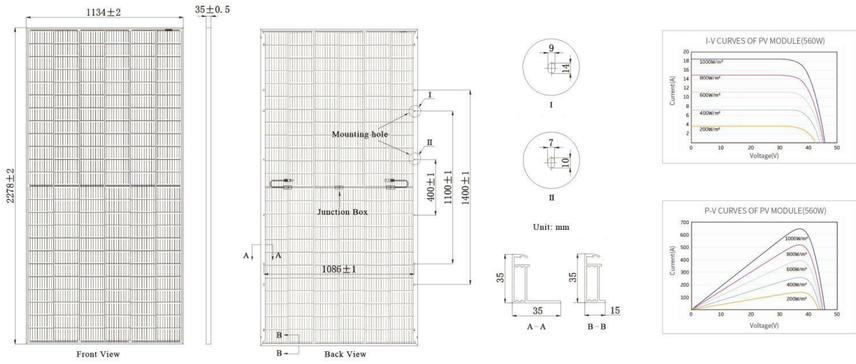
Linear Performance Warranty



12 Years Product Material & Workmanship
30 Years Linear Performance Warranty

IEC 61215 / IEC 61730 / UL6 1730
ISO 14001: Environmental Management System
ISO 9001: Quality Management System
ISO45001: Occupational Health and Safety Management System

DIMENSIONS



ELECTRICAL CHARACTERISTICS | STC*

Module Type	TEKO-144NBGH-560W	TEKO-144NBGH-565W	TEKO-144NBGH-570W	TEKO-144NBGH-575W	TEKO-144NBGH-580W
Nominal Power Watt Pmax(W)*	560	565	570	575	580
Open Circuit Voltage(Voc)(V)	50.67	50.87	51.07	51.27	51.47
Maximum Power Voltage(Vmp)(V)	41.95	42.14	42.29	42.44	42.59
Short Circuit Current(A)	14.13	14.19	14.25	14.31	14.37
Maximum Power Current(Imp)(A)	13.35	13.41	13.48	13.55	13.62
Module Efficiency(%)	21.68	21.87	22.07	22.26	22.45
Power Output Tolerance Pmax	0~+5W				

*The data above is for reference only and the actual data is in accordance with the pratical testing
*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25℃, AM 1.5
*Measuring tolerance: ±3%

MECHANICAL DATA

Cell	N-Type Mono(182*91mm)
No. of Cell	144(6x24)
Dimension	2278 x 1134 x 35mm
Weight	31.6kg±3%
Glass	2.0mm+2.0mm
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cables	4mm², 300mm(with Connector)
Connector	MC4-compatible

ELECTRICAL CHARACTERISTICS | NOCT*

Module Type	TEKO-144NBGH-560W	TEKO-144NBGH-565W	TEKO-144NBGH-570W	TEKO-144NBGH-575W	TEKO-144NBGH-580W
Maximum Power(Pmax)(W)	421	425	429	432	436
Open Circuit Voltage(Voc)(V)	48.13	48.32	48.51	48.70	48.89
Maximum Power Voltage(Vmp)(V)	39.39	39.52	39.65	39.78	39.87
Short Circuit Current(A)	11.41	11.46	11.50	11.55	11.60
Maximum Power Current(Imp)(A)	10.69	10.75	10.81	10.87	10.94

*NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

TEMPERATURE CHARACTERISTICS

NOCT	45±2°C
Temperature Coefficient of Pmax	-0.290%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.045%/°C

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 580W FRONT)

Power Gain	Peak Power(Pmax)(W)	MPP Voltage(Vmp)(V)	MPP Current(Imp)(A)	Open Circuit Voltage(Voc)(V)	Short Circuit Current(Isc)(A)
5%	609	42.59	14.30	51.47	15.09
10%	638	42.59	14.98	51.47	15.81
20%	696	42.59	16.34	51.47	17.24
25%	725	42.59	17.03	51.47	17.96

*Refer.Bifacial Factor: 70±10%

WORKING CONDITIONS

Maximum System Voltage	1500V DC
Operational Temperature	-40°C~+85°C
Maximum series fuse	30A
Maximum static loading(Front)	5400Pa(112lb/ft²)
Maximum static loading(Back)	2400Pa(50lb/ft²)

PACKAGING

Dimensions(L×W×H)	2321×1150×1270mm
Piece/Box	31
Container 40'HC	620

Due to continuous innovation, research and development and product improvement, Teko reserves the right to adjust the information in this technical parameter document at any time without prior notice.