



MONOCRYSTALLINE
BIFACIAL HALF-CELL MODULE

H-650M~670M-132HK

- ☀️ Module efficiency up to 21.6%
- ☀️ Lower operating temperature

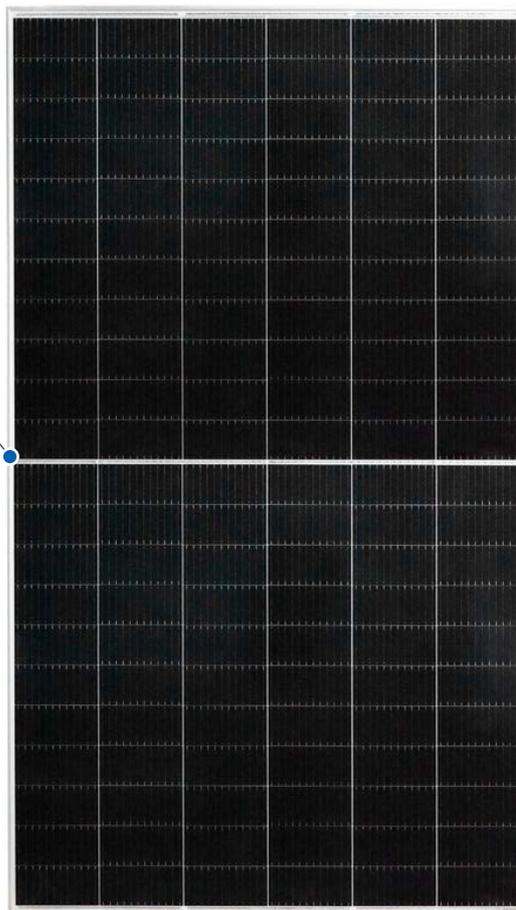
- ☀️ Extended wind and snow load tests
- ☀️ Withstanding harsh environment



15-year Warranty for materials and Processing



30-year Warranty for Linear Power Output



Jiangsu Huaneng
Intelligent Energy Supply Chain
Technology Co., Ltd

Huaneng Zijinruigu Park, No. 1 Cangyuan Road, Xuanwu District, Nanjing, China

www.nengsolar.cn

WORKING PARAMETERS	-40~+85	DC1500 (IEC)	30	Class II
	Operating Temperature(°C)	Max. System Voltage(V)	Maximum Series Fuse Rating (A)	Application Class

ELECTRICAL PARAMETERS | STC* | STC: Irradiance 1000W/m, Module Temperature 25°C, AM1.5

Module Model	H-650M-132HK	H-655M-132HK	H-660M-132HK	H-665M-132HK	H-670M-132HK
Rated Max. Power(Pmax/W)	650	655	660	665	670
Power Tolerance	0~+5Wp				
Max. Power Voltage(Vmp/V)	37.65	37.85	38.05	38.25	38.45
Max. Power Current(Imp/A)	17.27	17.31	17.35	17.39	17.43
Open Circuit Voltage(Voc/V)	45.65	45.85	46.05	46.25	46.45
Short Circuit Current(Isc/A)	18.27	18.31	18.35	18.39	18.43
Module Efficiency(%)	20.9%	21.1%	21.2%	21.4%	21.6%

TEMPERATURE CHARACTERISTIC

Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.050%/°C
Nominal Module Operation Temperature	42±2°C

REARSIDE POWER GAIN | Reference to 660M Front

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	693	759	825
Optimum Operating Voltage (Vmp/V)	38.1	38.1	38.2
Optimum Operating Current (Imp/A)	18.22	19.95	21.69
Open Circuit Voltage (Voc/V)	46.1	46.1	46.2
Short Circuit Current (Isc/A)	19.27	21.10	22.94
Module Efficiency (%)	22.3	24.4	26.6

MECHANICAL PARAMETERS

Cell Type	P Type Monocrystalline 210mm
Cell Orientation	132 (6 × 22)
Module Dimensions	2384 × 1303 × 35 mm
Weight	39.9kg
Front / Back Glass	2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glass
Output Cables	4.0 mm ² , (-) 350 mm and (+) 160 mm in length or customized length
Junction BOX	IP68 rated (3 bypass diodes)
Refer. Bifaciality Factor	(70 ± 5)%
Max. Wind Load/Max. Snow Load	2400Pa/5400Pa
Packing Configuration	Packaging box dimensions (mm): 1325*1120*2500
	Packaging box weight (kg) : 1275
	31 Pieces per pallet 558 Pieces per container / 40' HC

SIZE | (單位: mm) Module Dimensions

