



MONOCRYSTALLINE
BIFACIAL HALF-CELL MODULE

H-440M~460M-120FK

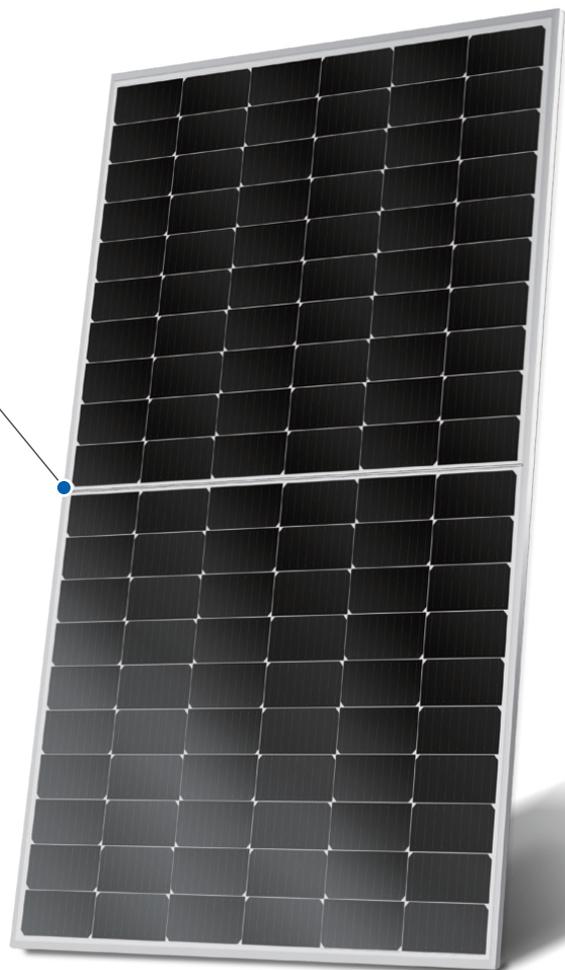
- ☀️ Less mismatch to get more power
- ☀️ Less power loss by minimizing the shading impact
- ☀️ Competitive low light performance
- ☀️ Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI



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)	25	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-440M-120FK	H-445M-120FK	H-450M-120FK	H-455M-120FK	H-460M-120FK
Rated Max. Power(Pmax/W)	440	445	450	455	460
Power Tolerance	0~+5Wp				
Max. Power Voltage(Vmp/V)	34.33	34.50	34.67	34.87	35.07
Max. Power Current(Imp/A)	12.82	12.90	12.98	13.05	13.12
Open Circuit Voltage(Voc/V)	41.08	41.21	41.33	41.46	41.58
Short Circuit Current(Isc/A)	13.71	13.79	13.87	13.94	14.01
Module Efficiency(%)	20.26%	20.49%	20.72%	20.95%	21.18%

MECHANICAL PARAMETERS

Cell Type	P Type Monocrystalline 182
Cell Orientation	120pcs (6*20)
Module Dimensions	1915mm*1134mm*35mm
Weight	26.4kg±3%
Front / Back Glass	2.0mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
J-BOX	IP68
Cables	4.0mm²(IEC), 12AWG(UL)
Max. Wind Load/Max. Snow Load	2400Pa/5400Pa
Bifaciality	70±10%

TEMPERATURE CHARACTERISTIC

Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.272%/°C
Temperature Coefficient of Isc	+0.044%/°C
Nominal Module Operation Temperature	45±2°C

PACKAGING

Container	40' HQ
Pieces per Pallet	31pcs/pallet
Pieces per Container	744

REAR SIDE POWER GAIN | Reference to 440M Front

Rearside Power Gain	5%	10%	15%	20%	25%
Maximum Power at STC (Pmax)	462	484	406	528	550
Optimum Operating Voltage (Vmp/V)	34.3	34.3	34.4	34.4	34.4
Optimum Operating Current (Imp/A)	13.47	14.11	14.71	15.35	15.99
Open Circuit Voltage (Voc/V)	41.1	41.1	41.2	41.2	41.2
Short Circuit Current (Isc/A)	14.40	15.08	15.77	16.45	17.14

SIZE | (单位: mm) Module Dimensions

