



MONOCRYSTALLINE  
SILICON BIFACIAL HALF-CELL MODULE

# H-400M~420M-144CK

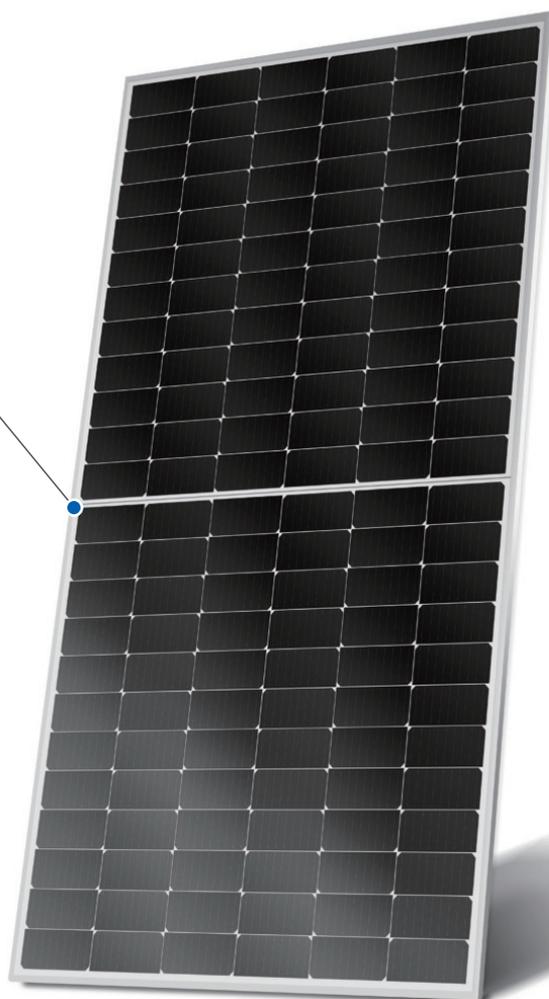
- ☀ Higher output power
- ☀ More reliable, more stable power generation
- ☀ Less shading effect
- ☀ Lower temperature coefficient



12-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](http://www.nengsolar.cn)

**WORKING  
PARAMETERS**

**-40~+85°C**  
Operating temperature  
(°C)

**DC1500 (IEC)**  
Max. System  
Voltage(V)

**20**  
Maximum Series  
Fuse Rating (A)

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

Module Model	H-400M-144CK	H-405M-144CK	H-410M-144CK	H-415M-144CK	H-420M-144CK
Rated Max. Power(Pmax/W)	400	405	410	415	420
Max. Power Voltage(Vmp/V)	42.02	42.28	42.54	42.80	43.04
Max. Power Current(Imp/A)	9.52	9.58	9.64	9.70	9.76
Open Circuit Voltage(Voc/V)	49.57	49.82	50.08	50.35	50.62
Short Circuit Current(Isc/A)	10.14	10.20	10.26	10.32	10.37
Module Efficiency(%)	19.5	19.8	20.0	20.3	20.5

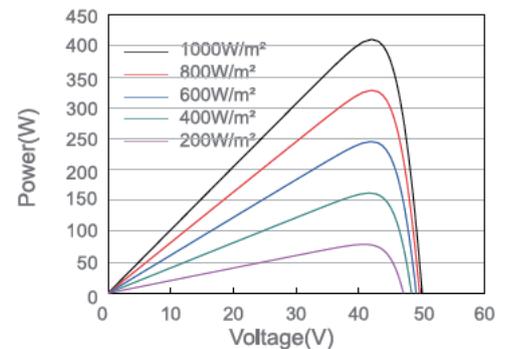
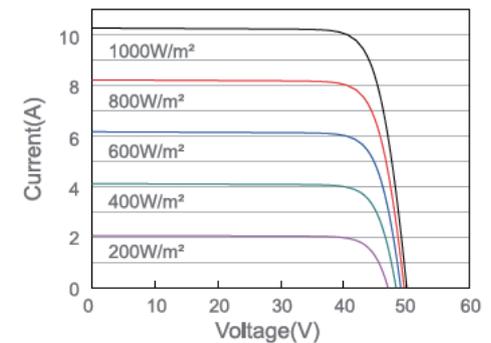
**MECHANICAL PARAMETERS**

Cell Type	Mono-Crystalline PERC
Weight	25.0kg
Module Dimensions	2037x1005x30mm
Cable Cross Section Size	4 mm <sup>2</sup>
No. of Cells	144 (6x24)
Junction Box	IP68, 3 diodes
Connector	MC4-EVO2/QC4.10-35
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1200mm(+)/1200mm(-)
Packaging Configuration	34 Per Pallet
Front Glass/Back Glass	2.0mm/2.0mm
Bafaciality	70%±10%

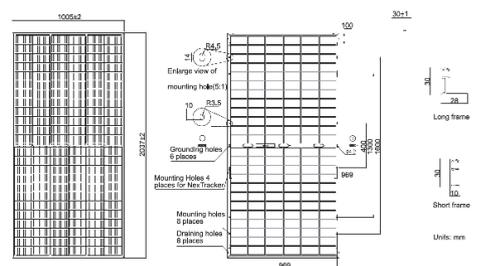
**TEMPERATURE CHARACTERISTIC**

Temperature Coefficient of Pmax	-0.354%/°C
Temperature Coefficient of Voc	-0.272%/°C
Temperature Coefficient of Isc	0.044%/°C
NOCT	45±2°C

**I-V CHARACTERISTICS | Reference to 410M**



**SIZE | (单位: mm)**  
Module Dimensions



**REAR SIDE POWER GAIN | Reference to 410M Front**

Rearside Power Gain	5%	10%	15%	20%	25%
Rated Max Power(Pmax) [W]	431	451	472	492	513
Open Circuit Voltage (Voc) [V]	50.10	50.10	50.10	50.20	50.20
Max Power Voltage (Vmp) [V]	42.55	42.55	42.55	42.65	42.65
Short Circuit Current (Isc) [A]	10.76	11.28	11.79	12.30	12.81
Max Power Current (Imp) [A]	10.12	10.60	11.08	11.54	12.02