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Haier | NAHUI

LUMENIA

Smart Balcony Solar Kit

HMK1P-800D-FB

Suitable For



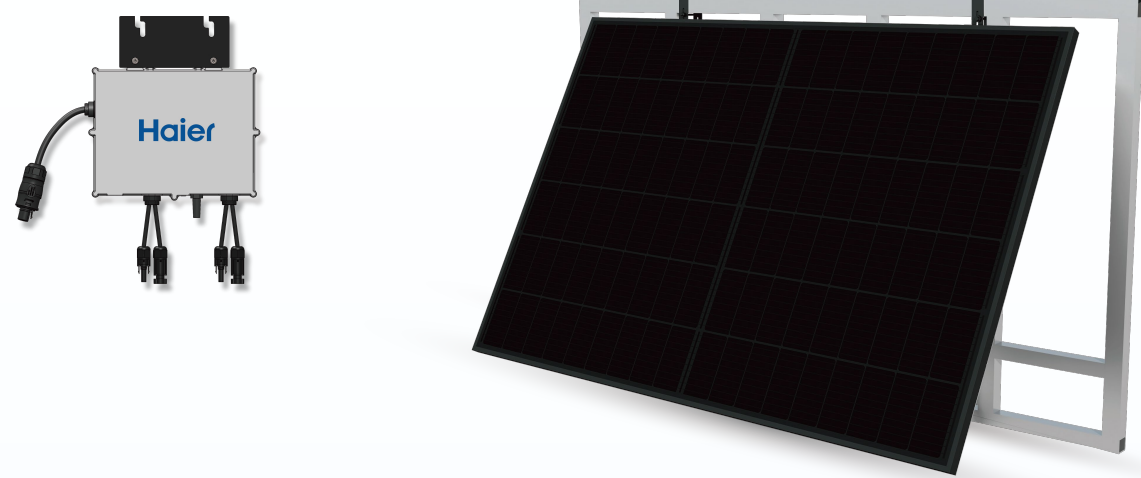
Balconies



Gardens



Fences

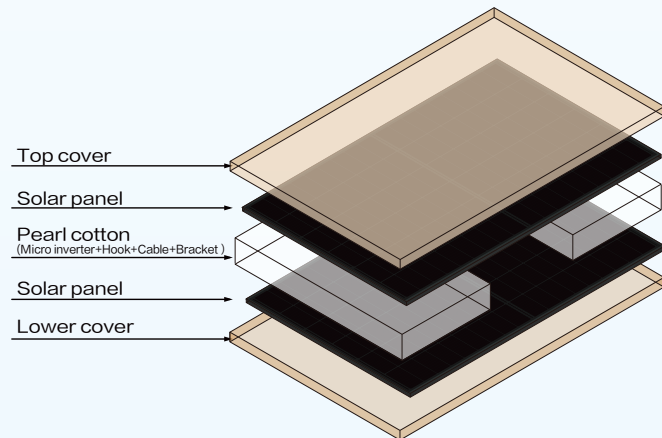


FEATURES

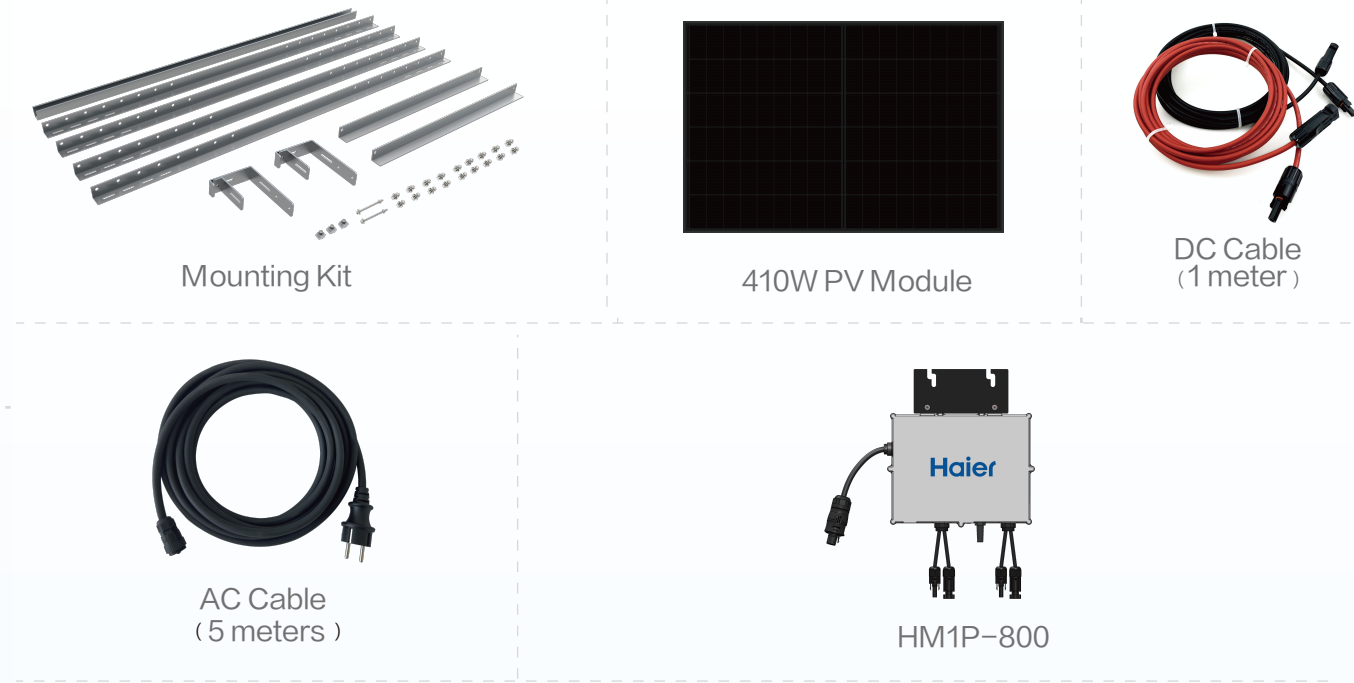
- Multi Angle Adjustment**
 The angle of the of the bracket can be adjusted to achieve maximum power generation
- Save Your Bill**
 Payback period less than 1 year combine with government subsidies
- Guaranteed Quality**
 10 year product warranty for the inverters
 15 years product warranty for the solar panels
- Easy Installation**
 Plug & play connection, no requirement for professional installation, saving installation costs.
- Super Safe Design**
 Low PV voltage (<60 VDC), patented bracket can bear force @ 12 typhoon
- All-in-one Design**
 The box includes solar panels, inverter and cables.

ORDERING INFORMATION

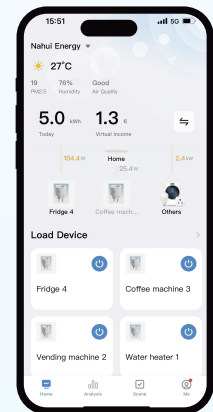
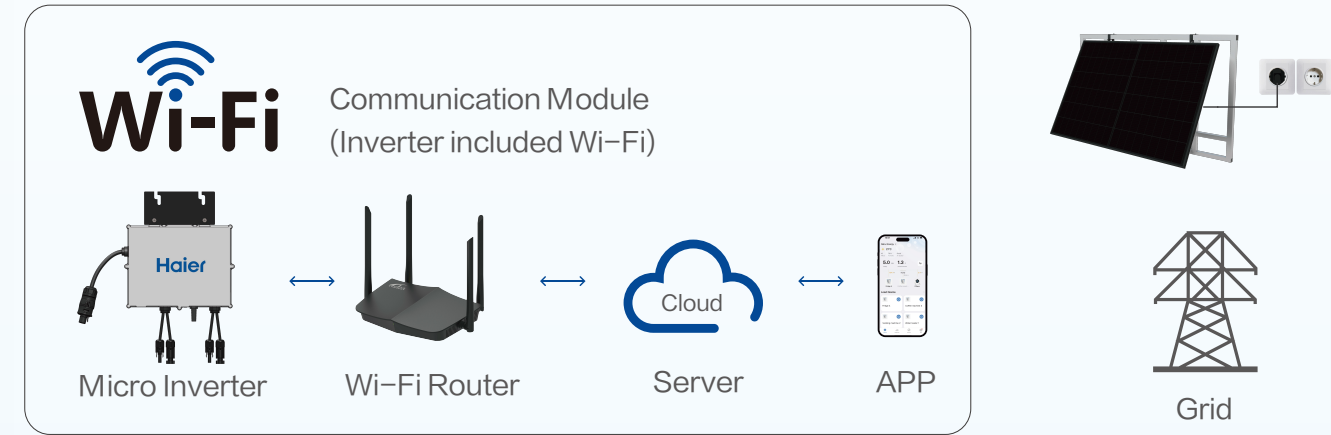
Ordering NO.	Description
HMK1P-800D-FB	1 x 600/800W micro inverter 2 x solar panels 1 x 5m AC cable 1 x 1m DC cable 1 x mounting kit
Container size	Packing quantity
40' HQ	364 kits
Weight of the balcony kit	58.15kg



STANDARD CONFIGURATION



MONITORING PLATFORM



Monitoring Platform

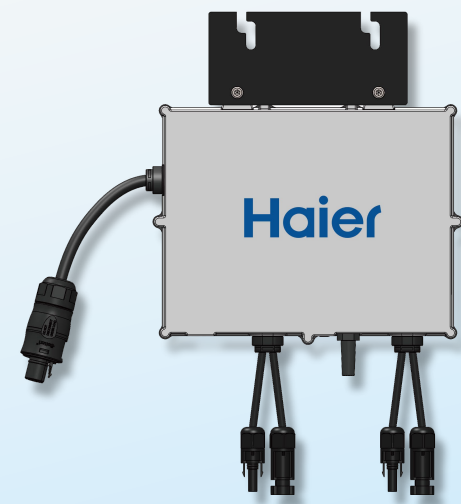
Nahui Energy is a mobile energy monitoring application software. Users can use Nahui Energy to monitor the real-time operation of the photovoltaic system, historical power generation data and environmental benefits generated by the system.

Balcony Solution

HM1P-800

Micro Inverter

Built-in WIFI
Instant PV



Robust, Reliable, and Durable



IP66 / IP67 isolation



Top-tier components



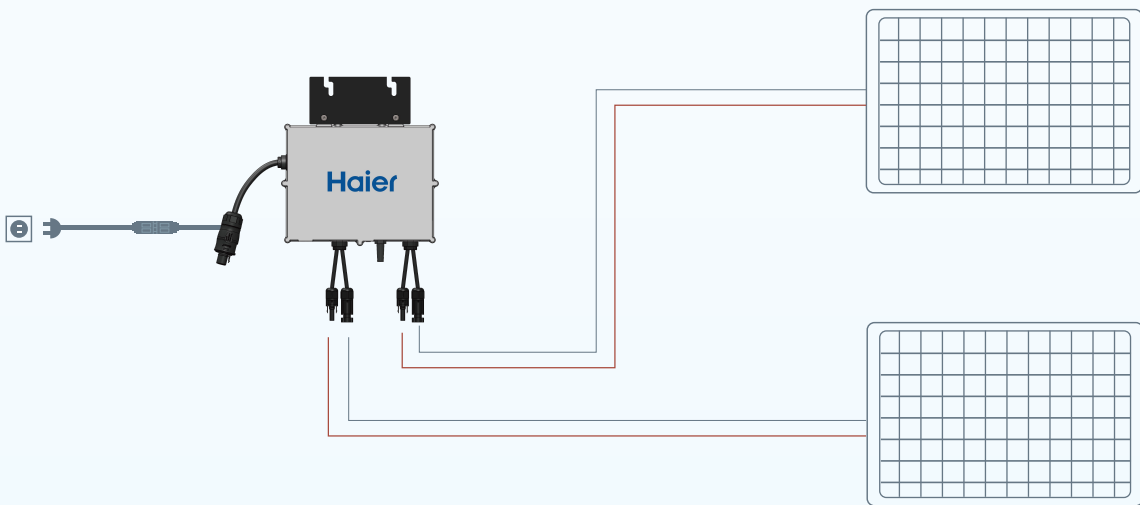
Ten years standard warranty



Dual grounding, dual safety



Low voltage PV system



CERTIFICATE



HM1P-800

INPUT | DC

Recommended PV Module Power Range / W	600 x 2
MPPT Voltage Range / V	22~55
Startup Voltage / V	24
Max. Input Voltage / V	60
Max. Input Current / A	17 x 2
Overvoltage Protection Category	II

OUTPUT | AC

Peak Output Power / VA	800
Max. Continuous Output Power / VA	800
Rated Output Voltage / V	230
Nominal Output Voltage Range / V	230 / Configurable
Max. Continuous Output Current / A	3.48
Nominal Frequency / Range / Hz	50 / Configurable
Power Factor (Nominal / Adjustable Range)	1.0 / 0.8 leading...0.8 lagging
THDi@Rated Power	<3%
Overvoltage Protection Category	III

EFFICIENCY

Peak Efficiency	97.3%
MPPT Efficiency	>99.5%
Night Power Consumption / mW	110

GENERAL DATA

Operating Ambient Temperature Range / °C	-40~65
Relative Humidity Range	0~100%
Dimensions (W x H x D) / mm	268 x 250 x 42
Weight / kg	2.9
Communication Method	WiFi (Frequency: 2.4 Ghz)
Protection Class	IP66 / IP67

Balcony Solution

NAHUI

NPP-410-54MD

410W (Full Black)

High Efficiency Half-Cell
Mono PERC Module



Excellent low irradiance performance.



Optimized electrical design and lower operating current for reduced hot spot



Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



Better light trapping and current collection to improve module power output and reliability.

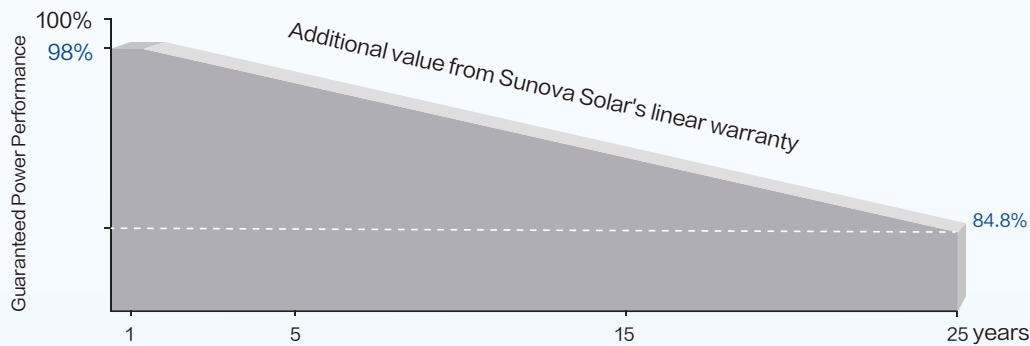


Industry leading lowest thermal co-efficient of power



100% triple EL test enabling remarkable reduction of hidden crack rate of modules

LINEAR PERFORMANCE WARRANTY



15 years

Product quality & process guarantee

25 years

Linear power guarantee

0.55%

Annual degradation over 25 years

COMPREHENSIVE CERTIFICATES



*Different markets have different certification requirements. Also, the products are under rapid innovation. Please confirm the certification status with regional sales representatives.

ELECTRIC CHARACTERISTICS

108cells

Model

NPP-410-54MD

	STC	NOCT
Maximum power – P _{mp} (W)	410	305
Open-circuit voltage – V _{oc} (V)	37.68	35.42
Short-circuit current – I _{sc} (A)	13.59	11.01
Maximum power voltage– V _{mp} (V)	31.84	29.61
Maximum power current – I _{mp} (A)	12.88	10.31
Module efficiency – η _m (%)	21.0	
Power tolerance (W)	± 3%	
Maximum system voltage (V)	1500	
Maximum rated fuse current (A)	25	
Current operating temperature (°C)	-40~+85°C	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C , Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

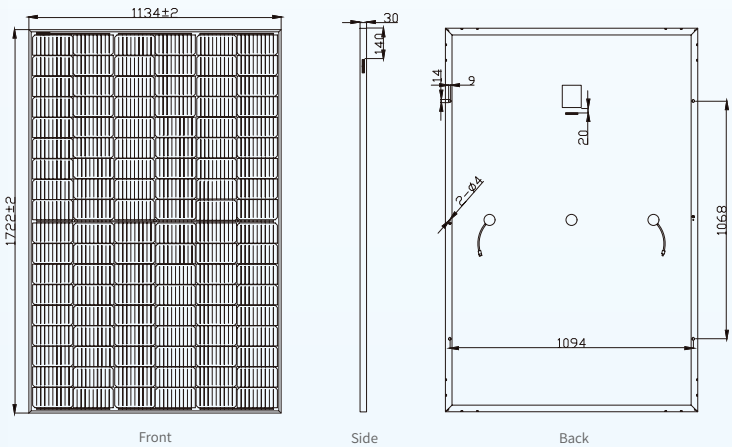
STRUCTURAL CHARACTERISTICS

Module dimensions (L * W * H)	1722 x 1134 × 30 mm
Weight	21.5 kg
Number of cells	108 cells
Cell	PERC Monocrystalline 182 x 91mm
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Black Anodized aluminum alloy
Junction box	IP68, 3 diodes
Output wire	4.0 mm ² , wire length: 300mm / 1200mm / customized
Connector	MC4 Compatible
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa

TEMPERATURE RATINGS

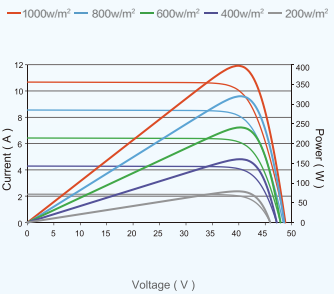
Temperature coefficient (P _{max})	-0.35% / °C
Temperature coefficient (V _{oc})	-0.28% / °C
Temperature coefficient (I _{sc})	+0.05% / °C
Nominal operating cell temperature	43±2°C

MODULE DIMENSIONS (MM)

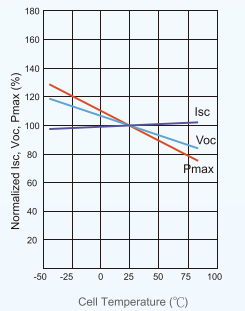


* The unma rance is ±1 mm
Length shown in mm

Current-Voltage & Power-Voltage Curves (400W)



Temperature Dependence of I_{sc}, V_{oc}, P_{max}



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