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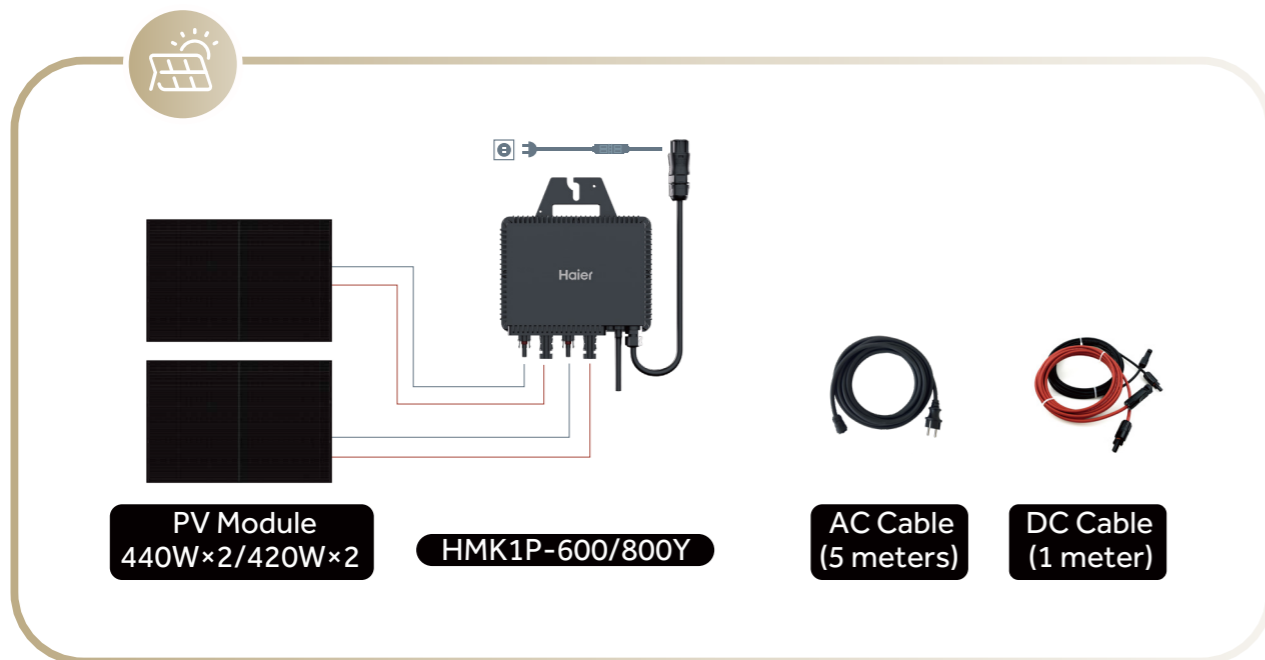
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Smart Balcony Solar Kit

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HM1P-600/800Y-NT440×2 HM1P-600/800Y-NT420×2



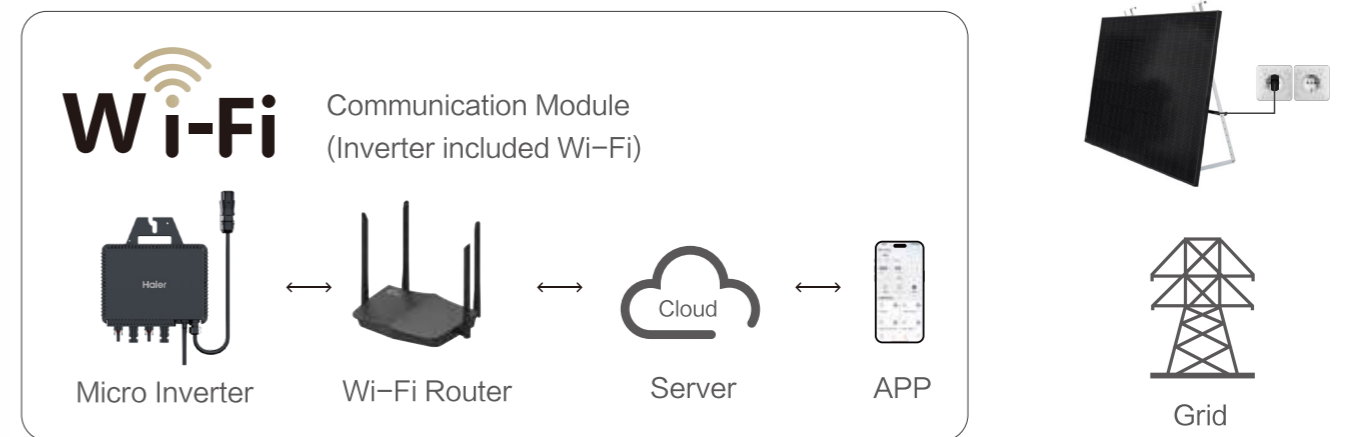
FEATURES

- Multi Angle Adjustment**
The angle of the of the bracket can be adjusted be adjusted power generation
- Save Your Bill**
Payback period less than 1 year combine with government subsidies
- Easy Installation**
Plug & play connection, no requirement for professional installation, saving installation costs.
- All-in-one Design**
The box includes solar panels, inverter and cables.
- Guaranteed Quality**
10 year product warranty for the inverters
15 years product warranty for the solar panels

ORDERING INFORMATION

Ordering No.	Description
HM1P-600/800Y-NT440×2	1 x600/800W micro inverter 2 x solar panels
HM1P-600/800Y-NT420×2	1 x 5m AC cable 1 x 1m DC cable
Container size	Packing quantity
40'HQ	364 kits
Gross Weight of the Balcony Kit	56.35kg

MONITORING PLATFORM



Monitoring Platform

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

420W/440W

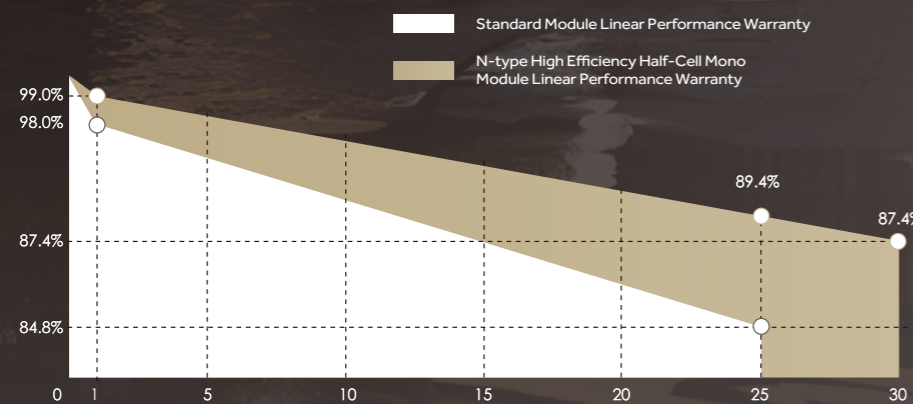
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N-type TOPCon High Efficiency Half-cel Mono Module



- 30-year lifespan delivers 10-30% more power compared with conventional P-type modules
- The natural lack of LID in the N-type solar cell can increase power generation
- Excellent low irradiance performance
- Certified to withstand 2400 Pa of windload and 5400 Pa of snow load
- Better light trapping and current collection to improve module power-output and reliability
- Industry-leading, lowest thermal coefficient
- Optimized electrical design and lower operating current for reduced hot spot loss and better temperature
- 100% triple EL test, which greatly reduces the hidden cracks rate

LINEAR PERFORMANCE WARRANTY



15 years
Product quality & process guarantee

30 years
Linear power guarantee

0.40 %
Annual degradation

COMPREHENSIVE CERTIFICATES



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

Model of modules	NPT-420-54MD		NPT-440-54MD	
	STC	NOCT	STC	NOCT
Maximum power - P_{mp} (W)	420	313	440	328
Open-circuit voltage - V_{oc} (V)	38.51	36.35	39.03	36.84
Short-circuit current - I_{sc} (A)	13.40	10.83	13.73	11.09
Maximum power voltage - V_{mp} (V)	32.92	30.82	33.48	31.34
Maximum power current - I_{mp} (A)	12.76	10.15	13.15	10.46
Module efficiency - η_m (%)	21.51		22.5	
Power tolerance (W)	(0,+5)			
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 Size (L * W * H)	1722 x 1134 x 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 bypass 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

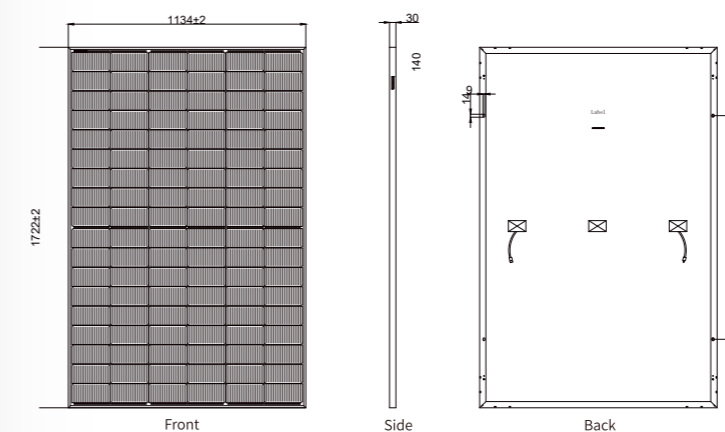
OPERATING PARAMETERS

Temperature coefficient (P_{max})	-0.30 %/°C
Temperature coefficient (V_{oc})	-0.28 %/°C
Temperature coefficient (I_{sc})	+0.04 %/°C
Nominal operating cell temperature	43±2°C

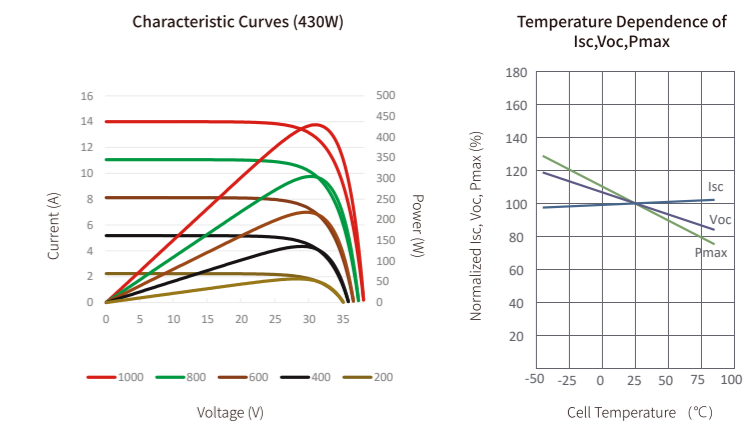
PACKAGING CONFIGURATION

Container	40HQ
Quantity/pallet	36
Pallets/container	26
Quantity/container	936

MODULE DIMENSIONS(MM)



* The unmarked tolerance is ±1 mm Length shown in mm



HMK1P-600Y/800Y

Micro Inverter

Built-in WIFI



Robust, Reliable, and Durable



Easy Upgrade: Remote upgrade



5min Distribution network



High efficiency: ECE efficiency 95.8%



IP67 protection degree

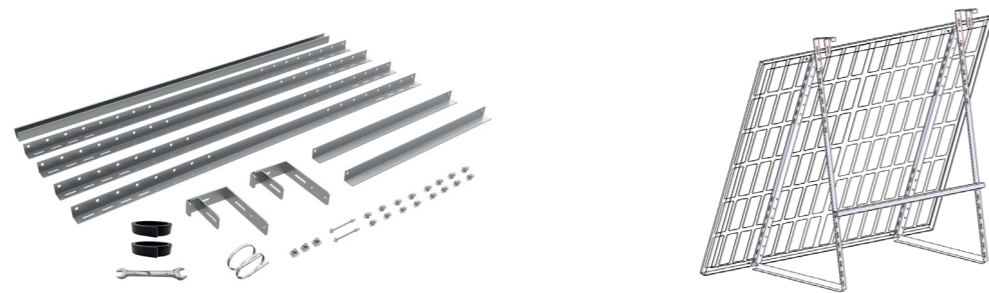
Model	HMK1P-600Y	HMK1P-800Y
INPUT DC		
Recommended PV Module Power (STC) Range	300-360	400-480
Peak power MPPT voltage range (V)	30-45	30-45
Operating voltage range (V)	25-60	25-60
Maximum input voltage (V)	60	60
Maximum input current (A)	2*11	2*15
OUTPUT AC		
Maximum continuous output power (VA)	600	800
Maximum continuous output current (A)	2.8	3.7
Nominal output voltage/Range (V)①	230V/207-253V	
Adjustable Output Voltage Range(V)	187V-265V	
Nominal frequency//Range(Hz)①	60/59.3-60.5Hz, 50/48-51Hz	
Adjustable Output Frequency Range(Hz)	45Hz-65Hz	
Power factor(adjustable)	0.99/0.8 leading...0.8 lagging	
Total harmonic distortion	<5%	
EFFICIENCY		
Peak convert efficiency	>95%	
CEC weighted efficiency	>94%	
Nominal MPPT efficiency	>99.8%	
Night power consumption (mW)	<100	
MECHANICAL DATA		
Ambient temperature range (°C)	-40°C~ + 65°C	
Dimensions (W/H/D)	220*220*37	
Weight (kg)	3	
Altitude (m)	2000	
Ingress protection	IP67	
Cooling	Natural Convection	
FEATURES		
Communication	Wi-Fi /802.11b/g/n 2.4GHz	
Isolation Design	High Frequency Transformers, Galvanically Isolated	
Warranty	12 Years Standard ; Extended Warranty Optional	
Compliance②	VDE 0124,CEI 0-21,VDE 0126,RD 1663,RD1699,EN50549-1, VDE4105,UNE217001/UNE217002/RD647,NB/T 32004	

*① Nominal voltage/frequency range can be changed to fulfill power department's regulation.

*② Combination for different sale region.

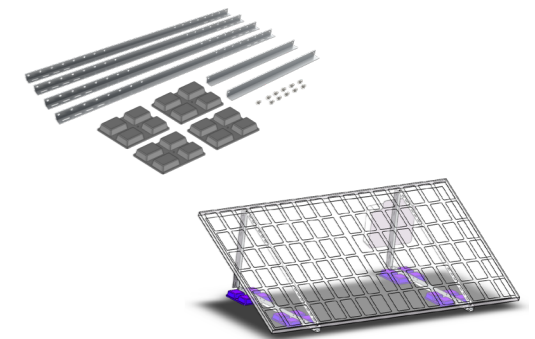
Optional Kit: PV Panel Brackets

Balcony Brackets



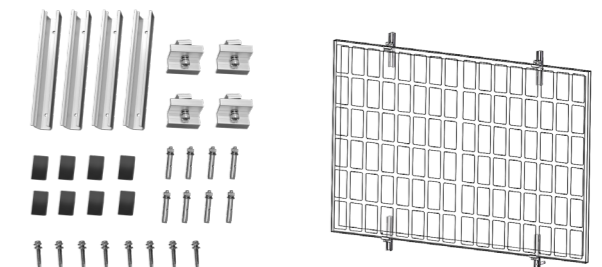
Overall		Packing size (mm)	Packing Weight(kg)	
MK-B		1220*130*50	6.26	
No.	Part name	Specification/size (mm)	Material	Quantity of single set
1	Tripod diagonal beams	Diagonal beam 30*30*2.4, length: 1135	AL6005-T5	4
2	Tripod backstop	Back brace 30*30*2.4, length: 545	AL6005-T5	2
3	Crossbar U rail	U-rail, length: 1110	AL6005-T5	1
4	Hooking	Hooking, length: 140	SUS304	2
5	Hexagon bolts	M6*20	SUS304	10
6	Hexagon bolts	M6*90	SUS304	2
7	Hexagon bolts	M6*20	SUS304	2
8	Hexagon bolts	M8*20	SUS304	1
9	Hexagon bolts	M8*20	SUS304	6
10	Cable ties	4.6*300	SUS304	2
11	Rubber mats	195*35*2	EPDM	2
12	wrench	10/13	Q235B	1

Garden/Ground/Flat Roof Brackets



Overall		Packing size (mm)	Packing Weight(kg)	
MK-G		1160*98*50	4.46	
MK-G1		280*220*150	1.25	
No.	Part name	Specification/size (mm)	Material	Quantity of single set
1	Tripod diagonal beams	Diagonal beam 30*30*2.4, length: 1140	AL6005-T5	4
2	Tripod backstop	Back brace 30*30*2.4, length: 545	AL6005-T5	2
3	Hexagon bolts	M6*20	SUS304	4
4	Hexagon bolts	M8*20	SUS304	6
5	Cushion block plates	260*200*2mm	Nylon + Fibre	4

Vertical Mounting/Wall Brackets



Overall		Packing size (mm)	Packing Weight(kg)	
MK-W		215*130*80	2.16	
No.	Part name	Specification/size (mm)	Material	Quantity of single set
1	Base	195mm	AL6005-T5	4
2	Waterproof mats	40*25mm	EPDM	8
3	Self-tapping nails	ST5.5*48mm	SUS410	8
4	Expansion screws	M6*50mm	SUS304	8
5	Edge briquetting	30/35mm	AL6005-T5	4

*You can buy different brackets depending on the mounting location.