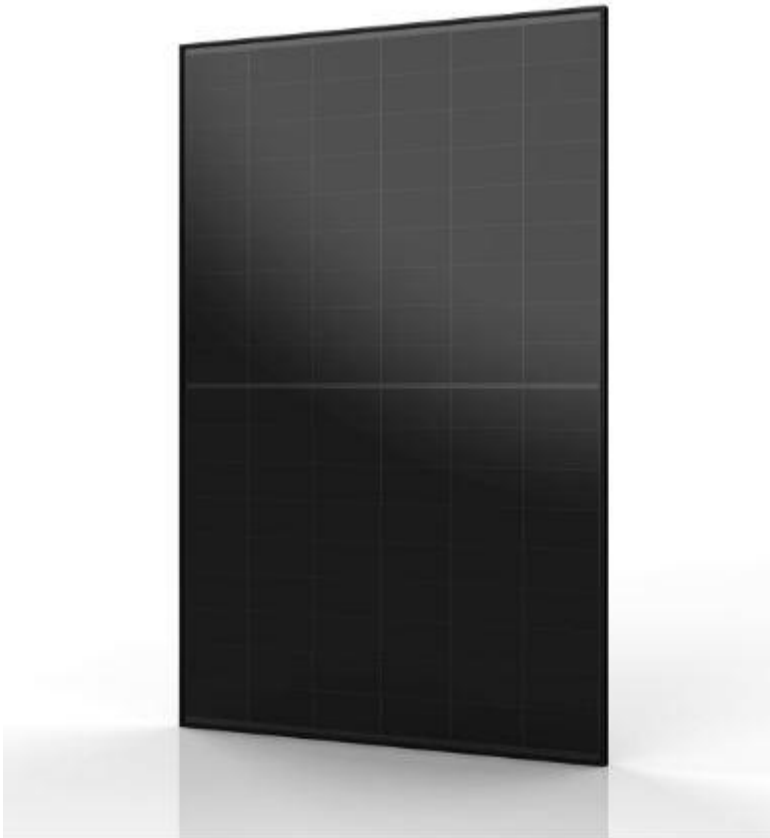


Park Cottage – In Roof Solar Spec

Solar panels - Aiko all black in-roof design (or same design / colour / style)



The in-roof mounting system means it replaces the roof tiles and sits almost flush with the rest of the roof – see below for example of the two types



Spec Sheet example – specific output version may change due to supplier availability at time of installation, but design appearance will not.

Neostar 2S

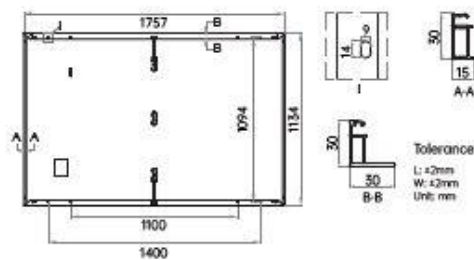
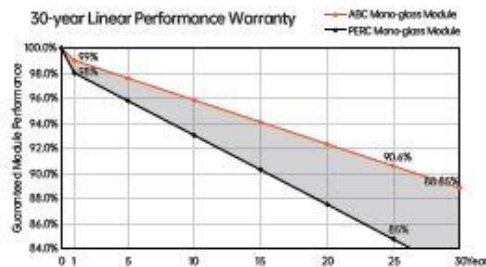
AIKO-A-MAH54Mb

460W
Output

23.1%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30



Electrical Characteristics (STC: AM1.5 1000W/m ² 25°C NOCT: AM1.5 800W/m ² 20°C 1m/s)										Power Tolerance 0~+3%	
Module Type	AIKO-A440-MAH54Mb		AIKO-A445-MAH54Mb		AIKO-A450-MAH54Mb		AIKO-A455-MAH54Mb		AIKO-A460-MAH54Mb		
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
P _{max} [W]	440	331	445	335	450	339	455	343	460	346	
V _{oc} [V]	40.49	38.24	40.59	38.33	40.69	38.43	40.79	38.52	40.89	38.62	
V _{mp} [V]	33.50	31.64	33.60	31.73	33.70	31.85	33.80	31.92	33.90	32.02	
I _{sc} [A]	15.91	11.25	14.02	11.35	14.12	11.42	14.22	11.50	14.32	11.58	
I _{mp} [A]	13.14	10.49	13.25	10.57	13.36	10.66	13.47	10.75	13.57	10.83	
Module Efficiency	22.1%		22.3%		22.6%		22.8%		23.1%		

Mechanical Specification	
Cell Type	N-Type ABC
Front Cover Mono glass	3.2 mm tempered glass
Frame	Black anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) 1200mm
No. of Cells	108(6*18)
Junction Box	IP68, 3 bypass diodes
Connector	MC4-Evo2
Weight	21.5kg
Dimension	1757*1134*30mm
Package Detail	36pcs per pallet / 216pcs per 20'GP / 936pcs per 40'HC

Temperature Ratings (STC)	
Temperature Coefficient of I _{sc}	+0.05%/°C
Temperature Coefficient of V _{oc}	-0.22%/°C
Temperature Coefficient of P _{max}	-0.26%/°C

Installation Guide	
Operation Temperature	-40°C ~ +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V _{oc} and I _{sc} Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hall Test	25 mm diameter hole at 25 m/s
Fire Rating	IEC Class C



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*AIKO Energy reserves right to update the specification without notice
AEB-EN-V6.3



Neostar 2S Mono-Glass Module

440W-460W

Second Generation
Comprehensive Upgrade:

 **Partial Shading Optimisation**

 Better Temperature Coefficient

 High Temperature Restriction

 Micro-crack Resistance

 Higher Power

 Lower BOS

 Full Black Design



reddot winner 2023



Munich RE

