

NEOSTAR

3P+60 Dual-Glass Module

530W-550W

Technical Features:

 Partial Shading Optimisation

 Better Temperature Coefficient

 High Temperature Restriction

 Micro-crack Resistance

 Higher Power

 Lower BOS

 More Aesthetic Values

 Infinite Technology



red dot winner 2023



Product
Warranty



Performance
Warranty



Warranty partner

Munich RE



550W

Output

24.8%

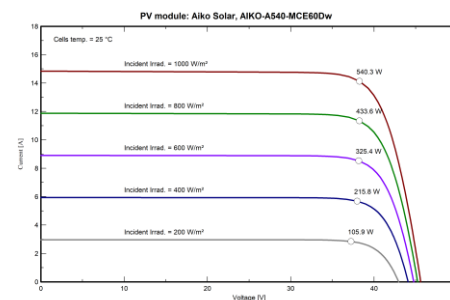
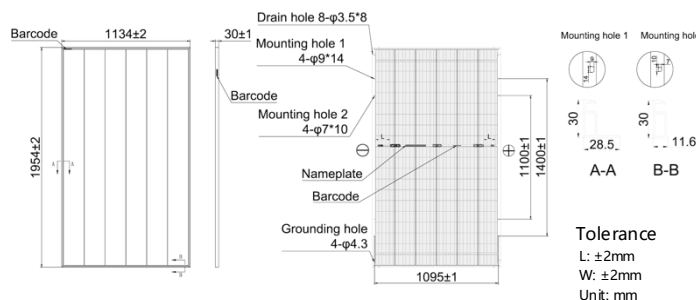
Efficiency

≤1%

First-year Degradation

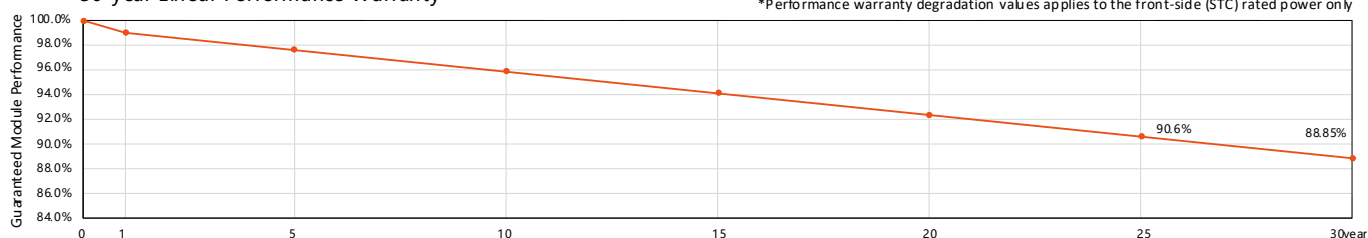
≤0.35%

Annual Degradation from Year 2-30



30-year Linear Performance Warranty

*Performance warranty degradation values applies to the front-side (STC) rated power only

Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s BNPI: front 1000W/m² + rear 135W/m²) P_{max}, I_{sc} & V_{oc} Measurement Tolerance: ±3% Power Binning Tolerance: 0~+3%

Module Type	AIKO-A530-MCE60Dw			AIKO-A535-MCE60Dw			AIKO-A540-MCE60Dw			AIKO-A545-MCE60Dw			AIKO-A550-MCE60Dw		
Test Conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P _{max} [W]	530	402	560	535	405	565	540	409	570	545	413	575	550	417	580
V _{oc} [V]	45.40	43.07	45.40	45.50	43.17	45.50	45.60	43.26	45.60	45.70	43.36	45.70	45.80	43.45	45.80
V _{mp} [V]	38.20	36.24	38.20	38.30	36.34	38.30	38.40	36.43	38.40	38.50	36.53	38.50	38.60	36.62	38.60
I _{sc} [A]	14.76	11.93	15.56	14.80	11.96	15.60	14.84	11.99	15.64	14.88	12.02	15.68	14.92	12.06	15.72
I _{mp} [A]	13.88	11.10	14.67	13.97	11.17	14.76	14.07	11.25	14.85	14.16	11.32	14.94	14.25	11.40	15.03
Module Efficiency	23.9%			24.1%			24.4%			24.6%			24.8%		

Bifacial Gain Electrical Characteristics (5% & 10%)

φP_{max}: 40%±5%, φV_{oc}: 98%±5%, φI_{sc}: 45%±5%

Module Type	AIKO-A530-MCE60Dw		AIKO-A535-MCE60Dw		AIKO-A540-MCE60Dw		AIKO-A545-MCE60Dw		AIKO-A550-MCE60Dw	
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
P _{max} [W]	557	583	562	589	567	594	572	600	578	605
V _{oc} [V]	45.40	45.40	45.50	45.50	45.60	45.60	45.70	45.70	45.80	45.80
V _{mp} [V]	38.20	38.20	38.30	38.30	38.40	38.40	38.50	38.50	38.60	38.60
I _{sc} [A]	15.50	16.24	15.54	16.28	15.58	16.32	15.62	16.37	15.67	16.41
I _{mp} [A]	14.57	15.27	14.67	15.37	14.77	15.48	14.87	15.58	14.96	15.68

Short Circuit Current @ BSI: 16.48±3% (BSI Test condition: front irradiance 1000 W/m², rear irradiance 300 W/m²)

Product Specification

Cell Type	N-Type ABC
Glass	Dual glass, 2.0+2.0mm coated semi tempered glass
Frame	Black Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) ±1200mm
No. of Cells	120(6*20)
Junction Box	IP68, 3 bypass diodes
Connector	Staubli Electrical Connectors AG – MC4 EVO2 Series PV-KST4-EVO 2/xy_UR (Male), PV-KBT4-EVO 2/xy_UR (Female)
Weight	27.1kg±3%
Dimension	1954*1134*30mm
Package Detail	37pcs per pallet / 185pcs per 20'GP / 888pcs 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

T ₉₈ max	70°C
Operation Temperature	-40°C to +70°C
Maximum Series Fuse Rating	30A
Protection Class	ClassII
Maximum System Voltage	DC1500V
Maximum Static Loading	Front +5400Pa Back -2400Pa
Hail Test	35 mm diameter hail at 27.2 m/s
Fire Rating	IEC Class A



Zhejiang Aiko Solar Energy Technology Co., Ltd.

www.aikosolar.com

marketing@aikosolar.com

Made in China

*AIKO reserves right to update the specification without notice

*Optional Munich Re coverage is available upon request

202602_V4.1_EN