AIKO

NEOSTAR

Bifacial double-glass (glass-glass) module 3S+60

515 W – 545 W

Technical features:

- Partial shading optimisation
- Better temperature coefficient
- High-temperature limitation
- Microcrack resistance
- Higher power
- Lower balance-of-system (BOS) cost
- Enhanced aesthetics
- Infinite technology

BloombergNEF TIER 1 PV Modules

ESG Investment Award 2024/25

inter solar award 2023 WINNER

reddot winner

Ariel Green

CE

TÜVRheinland

25 years Product warranty

30 years Performance warranty

IEC61215/IEC61730
IEC61701/IEC62716

ISO9001: ISO quality management system
ISO14001: ISO environmental management system
ISO14064: Statement verifying greenhouse gas emissions
ISO45001: Occupational health and safety management system

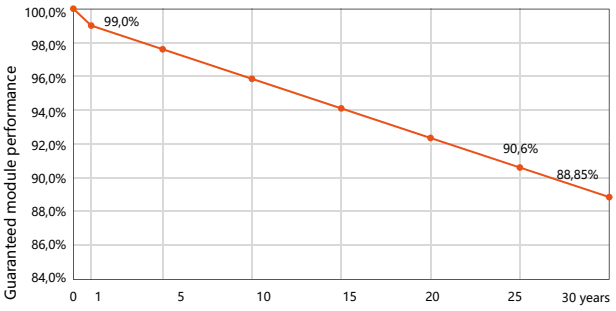
AIKO A540-MCE60Db 540 W

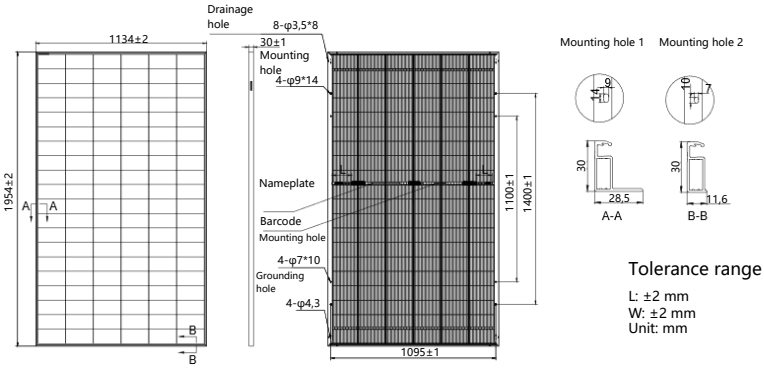
Neostar 3S+60

AIKO-A-MCE60Db

545 W	24,6%	≤1%	≤0,35%
Power output	Efficiency	Performance degradation in the first year	Annual performance degradation in years 2–30

30-year linear performance warranty





Tolerance range

L: ±2 mm
W: ±2 mm
Unit: mm

Electrical characteristics

(STC: AM 1,5 1000 W/m² 25 °C NOCT: AM 1,5 800 W/m² 20 °C 1 m/s)

Power tolerance: 0 ~ +3%

Module type	AIKO-A515-MCE60Db			AIKO-A520-MCE60Db			AIKO-A525-MCE60Db			AIKO-A530-MCE60Db			AIKO-A535-MCE60Db			AIKO-A540-MCE60Db			AIKO-A545-MCE60Db		
Test conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Pmax [W]	515	390	545	520	394	550	525	398	555	530	402	560	535	405	565	540	409	570	545	413	575
Voc [V]	45,10	42,79	45,10	45,20	42,88	45,20	45,30	42,98	45,30	45,40	43,07	45,40	45,50	43,17	45,50	45,60	43,26	45,60	45,70	43,36	45,70
Vmp [V]	37,90	35,96	37,90	38,00	36,05	38,00	38,10	36,15	38,10	38,20	36,24	38,20	38,30	36,34	38,30	38,40	36,43	38,40	38,50	36,53	38,50
Isc [A]	14,66	11,85	15,44	14,69	11,87	15,48	14,72	11,89	15,52	14,76	11,93	15,56	14,80	11,96	15,60	14,84	11,99	15,64	14,88	12,02	15,68
Imp [A]	13,59	10,87	14,39	13,69	10,94	14,48	13,79	11,02	14,57	13,88	11,10	14,67	13,97	11,17	14,76	14,07	11,25	14,85	14,16	11,32	14,94
Module efficiency	23,2%			23,5%			23,7%			23,9%			24,1%			24,4%			24,6%		

Product specifications

Cell type	N-Type ABC
Glass	Double glass, coated heat-strengthened glass 2,0+2,0 mm
Frame	Black anodised aluminium
Cable	4 mm² (IEC) 12 AWG (UL) ±1200 mm
Number of cells	120 (6*20)
Junction box	IP68, 3 bypass diodes
Connector	MC4-EVO2A
Weight	27,1 kg ± 3%
Dimensions	1954*1134*30 mm
Packaging details	37 pcs/pallet / 185 pcs/20' GP container / 888 pcs/40' HC container

Temperature ratings

(STC – standard test conditions)

Temperature coefficient I_{sc}	+ 0,05%/°C
Temperature coefficient V_{oc}	- 0,22%/°C
Temperature coefficient P_{max}	- 0,26%/°C

Installation instructions

Operating temperature	-40°C – +70°C
Maximum series fuse rating	30 A
Protection class	Class II
Maximum system voltage	DC 1500 V
Maximum static load	Front 5400 Pa Rear 2400 Pa
Hail resistance	35 mm diameter hail at 27,2 m/s
Fire resistance	IEC class: A

Official website

Scan to visit AIKO

Installer forum

Earn rewards for installing AIKO products

* AIKO reserves the right to update this specification without prior notice

* Optional Ariel Green insurance is available on request

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