

# N-Type ABC **Black Hole Series**

AIKO-A-MAH72Mb

Up to **23.8**% 595W-615W





Warranty Warranty



## reddot winner 2023

# **Higher Power Output**

High Efficiency: 23.8% Low Degradation: 1st year≤1%, year-on-year≤0.35% Long Warranty: 15yrs on quality, 30yrs on power Low Temperature Coefficient: -0.29%/°C

### **Lower BOS Cost**

**Pure-black Front without Gridlines** 

#### Complete Set of Quality Management System

IEC 61730 (2016) IEC 61215 (2021) ISO 9001:2015 Quality Management System ISO 14001:2015 Environmental Management System ISO 45001:2018 Occupational Safety and Management System





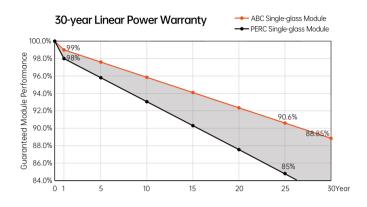


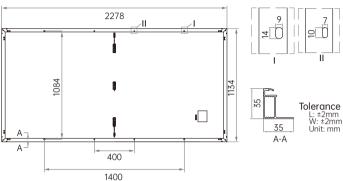


615W 2

**3.8%** ≤1% First-year Degradat

**≤0.35%**Annual Degradation from Year 2-30





Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s) Power Tolerance:0~+3% Max Power Test Uncertainty:±3%										
Model	AIKO-A595-MAH72Mb		AIKO-A600-MAH72Mb		AIKO-A605-MAH72Mb		AIKO-A610-MAH72Mb		AIKO-A615-MAH72Mb	
Test Conditions	STC	NOCT								
P <sub>max</sub> [W]	595	449	600	453	605	456	610	460	615	464
V <sub>oc</sub> [V]	53.39	50.28	53.49	50.38	53.59	50.47	53.69	50.56	53.79	50.66
V <sub>mp</sub> [V]	44.91	42.30	45.01	42.39	45.11	42.48	45.21	42.58	45.31	42.67
I <sub>sc</sub> [A]	13.73	11.13	13.79	11.18	13.85	11.23	13.91	11.28	13.97	11.33
I <sub>mp</sub> [A]	13.25	10.62	13.34	10.69	13.42	10.75	13.50	10.82	13.58	10.88
Module Efficiency	23.0%		23.2%		23.4%		23.6%		23.8%	

Mechanical Specification					
Cell Type	Mono-crystalline Silicon				
Front Cover Single glass	3.2 mm tempered glass, with anti-reflection coating				
Frame	Black anodized alumninum				
Cable	4mm²(IEC) 12AWG(UL) 350mm or Customized Length				
No. of Cells	144(6*24)				
Junction Box	IP68, three bypass diodes				
Connector	MC4 compatible				
Weight	28.6Kg±3%				
Dimension	2278*1134*35mm				
Package Detail	ckage Detail 31pcs per pallet/155 pcs per 20' GQ/620pcs per 40' HC				

Temeprature Ratings (ST	C)				
Temperature Coefficient of $\rm I_{\rm sc}$	+ 0.05%/K				
Temperature Coefficient of $V_{\rm oc}$	- 0.24%/K				
Temperature Coefficient of P <sub>max</sub>	- 0.29%/K				
Installation Guide					
Operation Temperature	- 40°C-+85°C				
Maximum Series Fuse Rating	25A				
Protection Class	Class II				
Maximum System Voltage	DC1500V				
Maximum Static Loading	Front 5400Pa Back 2400Pa				
Hail Test	25 mm diameter hail at 23 m/s				
Fire Rating	IEC Class C				

