



**N-Type**

**96cells** (Bifacial)

**450W - 470W**



As a leading provider of integrated energy solutions in Korea,

We deliver a wide spectrum of technologies across solar generation, storage, and power management.

We are committed to innovation-driven competitiveness, long-term value creation, and sustainable growth with our customers.

### Certificates



#### ISO

- ISO 9001:2015
- ISO 45001:2018



#### Test Standard

- IEC 61215
- IEC 61730
- UL 61730



#### Quality

- Over 50years of manufacturing experience (from 1966)
- Having own official laboratory approved by TUV SUD

### Key Features



#### Linear Performance Warranty

- 12 years product warranty
- 30 years performance warranty (88.90%)



#### 1500V

- Designed for UL and IEC 1,500V
- Saving BoS costs



#### Mechanical Load

- Front 5,400 Pa (Snow load)
- Back 2,400 Pa (Wind load)

# AM-EDJB0 Series

| 450W - 470W TOPCon | Half-Cut 96Cells |

HAxxxAM-EDJB0		HA450AM-EDJB0		HA455AM-EDJB0		HA460AM-EDJB0		HA465AM-EDJB0		HA470AM-EDJB0	
		STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)
<b>Max Power</b>	<b>Pmax(Wp)</b>	450	343	455	347	460	351	465	354	470	358
<b>Voltage at Pmax</b>	<b>Vmp(V)</b>	30.43	28.55	30.69	28.80	30.95	29.04	31.21	29.28	31.47	29.53
<b>Current at Pmax</b>	<b>Imp(A)</b>	14.79	12.02	14.83	12.05	14.87	12.08	14.91	12.11	14.95	12.15
<b>Open Circuit Voltage</b>	<b>Voc(V)</b>	36.04	34.69	36.18	34.82	36.32	34.96	36.46	35.09	36.60	35.22
<b>Short Circuit Current</b>	<b>Isc(A)</b>	15.73	12.68	15.78	12.72	15.83	12.76	15.88	12.80	15.93	12.84
<b>Module efficiency</b>	<b>%</b>	22.5		22.8		23.0		23.3		23.5	
<b>Temperature Coefficient of Isc</b>								+ 0.048 [%/°C]			
<b>Temperature Coefficient of Voc</b>								- 0.25 [%/°C]			
<b>Temperature Coefficient of Pmax</b>								- 0.29 [%/°C]			
<b>NOCT</b>	<b>°C</b>							42±2°C			

Electrical Characteristics With Rear Side Power Gain		HA450AM-EDJB0		HA455AM-EDJB0		HA460AM-EDJB0		HA465AM-EDJB0		HA470AM-EDJB0	
<b>Front power</b>	<b>Pmax (Wp)</b>	450		455		460		465		470	
<b>Total power</b>	<b>Pmax (Wp)</b>	497		503		508		514		519	
<b>Voltage at Pmax</b>	<b>Vmp(V)</b>	30.47		30.73		30.99		31.25		31.51	
<b>Current at Pmax</b>	<b>Imp(A)</b>	16.32		16.37		16.41		16.45		16.50	
<b>Open Circuit Voltage</b>	<b>Voc(V)</b>	36.04		36.18		36.32		36.46		36.60	
<b>Short Circuit Current</b>	<b>Isc(A)</b>	17.31		17.36		17.42		17.47		17.53	

All data accordance with STC of real side power generation will not guarantee as they may depending on installation location, side, angle and other things.  
NOCT : Irradiance on cell surface 800 W/m2, Air Temperature 20°C, Wind Velocity 1m/s, Mounting open back side.

Mechanical Data	
<b>Dimension</b>	1762 x 1134 x 30 mm
<b>Weight</b>	24.0kg
<b>Junction Box</b>	3 Diodes, IP68 according to IEC 62790
<b>Frame</b>	Anodized aluminium alloy
<b>Connector</b>	PV-ZH202B or MC4-EVO 2A
<b>Glass</b>	Front, 2.0mm, ARC,Heat strengthened glass Back, 2.0mm, Heat strengthened glass
<b>Cable</b>	4 mm <sup>2</sup> /Portrait: 300 mm (+) /200 mm (-) Landscape: 1100 mm (+) /1100 mm (-) Length can be customized

System Design	
<b>Max.System Voltage</b>	1500 DC (IEC)
<b>Max.Series Fuse rating</b>	30A
<b>Max.Reverse Current</b>	30A

Operational & Testing Condition	
<b>Operational Temperature</b>	-40°C ~ 85°C
<b>Max.Test Load (Push)</b>	Front 5400 Pa / Back 2400 Pa

Packaging	
<b>36 pcs / pallet, 936 pcs / 40'HQ</b>	

