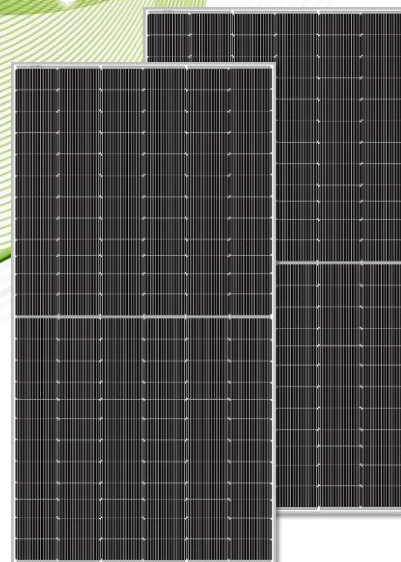





# 144cells (Bifacial)

560 - 580W



Those who dream a better future can help lead to a more meaningful and enriched world.

As a leading solar module manufacturer in Korea, we never stop to achieve competitiveness through differentiation, implement the maximum value, and commit to sustainable development with customers.

## Certificates



### ISO

- ISO 9001:2015
- ISO 14001:2015
- 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



### Company Credit

- ICR (Issuer Credit Rating) BBB
- Listed on Korean Index



### Mechanical Load

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



### 1000V or 1500V

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

# AD-NNEA0 Series

| 560W - 580W TOPcon | Half-Cut 144Cells |

HAxxxAD-NNEA0		HA560AD-NNEA0		HA565AD-NNEA0		HA570AD-NNEA0		HA575AD-NNEA0		HA580AD-NNEA0	
		STC (NOCT)		STC (NOCT)		STC (NOCT)		STC (NOCT)		STC (NOCT)	
<b>Max Power</b>	<b>Pmax(Wp)</b>	560	423	565	426	570	430	575	434	580	438
<b>Voltage at Pmax</b>	<b>Vmp(V)</b>	42.0	39.5	42.2	39.7	42.4	39.9	42.6	40.0	42.8	40.2
<b>Current at Pmax</b>	<b>Imp(A)</b>	13.34	10.70	13.39	10.74	13.45	10.79	13.50	10.83	13.56	10.88
<b>Open Circuit Voltage</b>	<b>Voc(V)</b>	50.7	47.8	50.9	48.0	51.1	48.2	51.3	48.4	51.5	48.6
<b>Short circuit Current</b>	<b>Isc(A)</b>	14.11	11.39	14.17	11.44	14.23	11.48	14.29	11.53	14.35	11.58
<b>Module efficiency</b>	<b>%</b>	21.68%		21.87%		22.07%		22.26%		22.45%	
<b>Temperature Coefficient of Isc</b>		+ 0.046 [%/°C]									
<b>Temperature Coefficient of Voc</b>		- 0.25 [%/°C]									
<b>Temperature Coefficient of Pmax</b>		- 0.30 [%/°C]									
<b>NOCT</b>	<b>°C</b>	44±2°C									

### Electrical Characteristics With 25% Rear Side Power Gain

<b>Front power</b>	<b>Pmax (Wp)</b>	560	565	570	575	580
<b>Total power</b>	<b>Pmax (Wp)</b>	700	706	713	719	725
<b>Voltage at Pmax</b>	<b>Vmp(V)</b>	42.10	42.30	42.50	42.70	42.90
<b>Current at Pmax</b>	<b>Imp(A)</b>	16.63	16.70	16.76	16.83	16.90
<b>Open Circuit Voltage</b>	<b>Voc(V)</b>	50.80	51.00	51.20	51.40	51.60
<b>Short circuit Current</b>	<b>Isc(A)</b>	17.59	17.67	17.74	17.82	17.88

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.

### Mechanical Data

<b>Dimension</b>	2278 x 1134 x 30 mm
<b>Weight</b>	31.5kg
<b>Junction Box</b>	IP68 with bypass diode
<b>Frame</b>	Anodized Aluminum (Silver)
<b>Connector</b>	MC4-Compatible
<b>Glass</b>	2.0mm+2.0mm heat strengthened glass
<b>Cable</b>	(+) 350mm, (-) 350mm, 12AWG

### System Design

<b>Max.System Voltage</b>	1500 VDC
<b>Max.Series Fuse rating</b>	30A
<b>Max.Reverse Current</b>	30A

### Operational & Testing Condition

<b>Operational Temperature</b>	-40°C ~ 85°C (-40°F ~ 185°F)
<b>Max.Test Load (Push)</b>	5400 Pa

### Packaging

36 pcs / pallet, 720 pcs / 40'HQ

