




N-Type

120cells (Bifacial)

485W - 500W



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)



1500V

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

AB-DDGA0 Series

I 485W - 500W TOPCon | Half-Cut 120Cells |

HAxxxAB-DDGA0		HA485AB-DDGA0		HA490AB-DDGA0		HA495AB-DDGA0		HA500AB-DDGA0	
		STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)
Max Power	Pmax(Wp)	485	365	490	369	495	373	500	376
Voltage at Pmax	Vmp(V)	36.27	33.88	36.47	34.07	36.67	34.25	36.87	34.44
Current at Pmax	Imp(A)	13.38	10.80	13.44	10.85	13.50	10.90	13.56	10.95
Open Circuit Voltage	Voc(V)	43.62	41.28	43.82	41.47	44.02	41.65	44.22	41.84
Short circuit Current	Isc(A)	13.86	11.16	13.92	11.21	13.98	11.26	14.04	11.31
Module efficiency	%	21.90%		22.20%		22.40%		22.60%	
Temperature Coefficient of Isc					+ 0.048 [%/°C]				
Temperature Coefficient of Voc					- 0.25 [%/°C]				
Temperature Coefficient of Pmax					- 0.29 [%/°C]				
NOCT					°C 42±2°C				

Bifacial Output-Rearside Power Gain (*BSTC)		485W	490W	495W	500W
Bifacial Gain	Unit				
10%	Pmax (Wp)	534	539	545	550
20%	Pmax (Wp)	582	588	594	600
30%	Pmax (Wp)	631	637	644	650

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	
Dimension	1950 x 1134 x 30 mm
Weight	26.8kg
Junction Box	IP68 with bypass diode
Frame	Anodized aluminium alloy
Connector	PV-ZH202B or MC4-EVO 2A
Glass	Front, 2.0mm, ARC,Heat strengthened glass Back, 2.0mm, Heat strengthened glass
Cable	(+)1300mm, (-)1300mm 12AWG

System Design	
Max.System Voltage	1500 VDC
Max.Series Fuse rating	30A
Max.Reverse Current	30A

Operational & Testing Condition	
Operational Temperature	-40°C ~ 85°C
Max.Test Load (Push)	5400 Pa

Packaging	
36 pcs / pallet, 864 pcs / 40'HQ	

