



N-Type

108cells (Bifacial)

420W - 440W



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)

AA-DGEA0 Series

| 420W - 440W TOPCon | Half-Cut 108Cells |

HAxxAA-DGEA0		HA420AA-DGEA0	HA425AA-DGEA0	HA430AA-DGEA0	HA435AA-DGEA0	HA440AA-DGEA0
Max Power	Pmax(Wp)	420	425	430	435	440
Voltage at Pmax	Vmp(V)	31.51	31.70	31.88	32.06	32.24
Current at Pmax	Imp(A)	13.33	13.41	13.49	13.57	13.65
Open Circuit Voltage	Voc(V)	38.11	38.30	38.49	38.68	38.87
Short circuit Current	Isc(A)	14.07	14.15	14.23	14.31	14.39
Module efficiency	%	21.51%	21.76%	22.02%	22.28%	22.53%
Temperature Coefficient of Isc		+ 0.046 [%/°C]				
Temperature Coefficient of Voc		- 0.25 [%/°C]				
Temperature Coefficient of Pmax		- 0.30 [%/°C]				
NOCT	°C	43±2°C				

ELECTRICAL PARAMETERS AT BSTC						
Maximum Power	Pmax (Wp)	465	470	475	480	485
Voltage at Pmax	Vmp(V)	31.51	31.70	33.91	32.05	32.23
Current at Pmax	Imp(A)	14.76	14.83	14.01	14.98	15.05
Open Circuit Voltage	Voc(V)	38.11	38.30	38.49	38.68	38.87
Short circuit Current	Isc(A)	15.58	15.67	15.76	15.81	15.93
Module Efficiency	STC(%)	23.81%	24.07%	24.32%	24.58%	24.84%

**BSTC: Front side irradiation 1000W/m², Back side reflection irradiation 135W/m², AM=1.5, Cell temperature 25°C.

Mechanical Data	
Dimension	1722 x 1134 x 30 mm (67.76"x44.65"x1.18")
Weight	24kg (52.91lb)
Junction Box	IP68 with 3Bypass diode
Frame	Anodized aluminium alloy, black
Connector	MC4-EVO2
Glass	2.0+2.0mm, heat strengthened glass
Cable	300mm or Customized

System Design	
Max.System Voltage	1500V/DC(IEC)
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, 936 pcs / 40'HQ	

