

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

HAxxxAE-NNEA0		HA610AE-NNEA0		HA615AE-NNEA0		HA620AE-NNEA0		HA625AE-NNEA0		HA630AE-NNEA0	
		STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)	STC	(NOCT)
Max Power	Pmax(Wp)	610	461	615	464	620	468	625	472	630	475
Voltage at Pmax	Vmp(V)	45.70	43.00	45.90	43.20	46.10	43.40	46.30	43.60	46.50	43.70
Current at Pmax	Imp(A)	13.35	10.71	13.40	10.75	13.45	10.79	13.50	10.83	13.55	10.86
Open Circuit Voltage	Voc(V)	55.10	52.00	55.30	52.20	55.50	52.40	55.70	52.50	55.90	52.70
Short circuit Current	Isc(A)	14.11	11.39	14.16	11.43	14.21	11.47	14.26	11.51	14.31	11.55
Module efficiency	%	21.82%		22.00% 22.18%		22.36%		22.54%			
Temperature Coefficient of Isc		+ 0.046 [%/°C]									
Temperature Coefficient of Voc		- 0.25 [%/℃]									
Temperature Coefficient of Pmax		- 0.30 [%/°C]									
NOCT	°C					44:	±2 ℃				
Electrical Characteristics W	lith 25% Rear	Side Po	ver Gain								
Front nower Proces (Mn)			10	0.	4 E	0	20	0/).E	0/	20

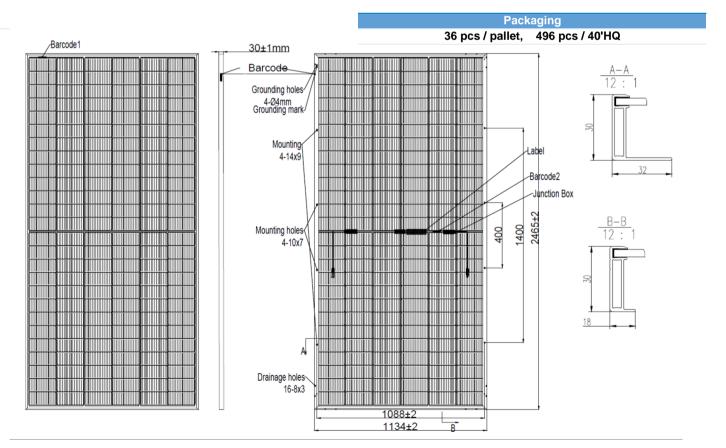
Front power Pmax (Wp) 610 615 620 625 630 Total power Pmax (Wp) 763 769 775 781 788 Voltage at Pmax Vmp(V) 45.80 46.00 46.20 46.40 46.60 Current at Pmax Imp(A) 16.65 16.71 16.77 16.84 16.90 Open Circuit Voltage Voc(V) 55.20 55.40 55.60 55.80 56.00 Short circuit Current Isc(A) 17.60 17.66 17.72 17.79 17.85	Electrical Characteristics With 25% Rear Side Power Gain						
Voltage at Pmax Vmp(V) 45.80 46.00 46.20 46.40 46.60 Current at Pmax Imp(A) 16.65 16.71 16.77 16.84 16.90 Open Circuit Voltage Voc(V) 55.20 55.40 55.60 55.80 56.00	Front power	Pmax (Wp)	610	615	620	625	630
Current at Pmax Imp(A) 16.65 16.71 16.77 16.84 16.90 Open Circuit Voltage Voc(V) 55.20 55.40 55.60 55.80 56.00	Total power	Pmax (Wp)	763	769	775	781	788
Open Circuit Voltage Voc(V) 55.20 55.40 55.60 55.80 56.00	Voltage at Pmax	Vmp(V)	45.80	46.00	46.20	46.40	46.60
	Current at Pmax	Imp(A)	16.65	16.71	16.77	16.84	16.90
Short circuit Current Isc(A) 17.60 17.66 17.72 17.79 17.85	Open Circuit Voltage	Voc(V)	55.20	55.40	55.60	55.80	56.00
	Short circuit Current	Isc(A)	17.60	17.66	17.72	17.79	17.85

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				
Dimension	2465 x 1134 x 30 mm			
Weight	34.3kg ± 1.0kg			
Junction Box	IP68 with bypass diode			
Frame	Anodized Aluminum (Silver)			
Connector	MC4-Compatible			
Glass	2.0mm+2.0mm heat strengthened glass			
Cable	(+) 350mm, (-) 350mm, 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 (-40°F ~ 185°F)				
Max.Test Load (Push)	5400 Pa				





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