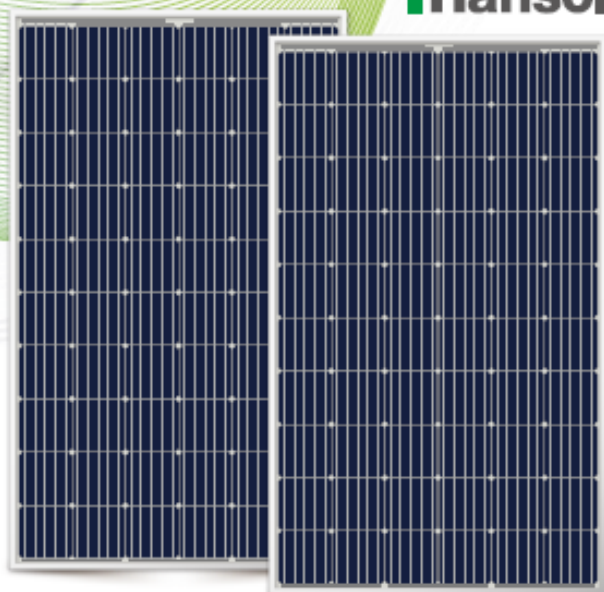


**Mono**  
**60cells**  
**(305~330Watt)**



Those who dream of 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



#### Quality

ISO 9001:2015    ISO 14001:2015  
OHSAS 18001:2007    ISO/TS 16949:2009  
Bankability Tier1 PV module manufacturer



#### Product

IEC 61215 / IEC 61730 : TUV / CE  
IEC 61701 Salt Mist Corrosion Level 6  
UL 1703 Fire Rating Type 1

### Key Features



#### Linear Performance Warranty

12 Years product warranty  
25 Years linear performance warranty



#### Certified Durability

5,400 Pa snow load passed by TUV  
2,400 Pa wind load passed by TUV  
5,400 Pa wind load tested in Korea



#### 1,500V

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



#### PID Free

Anti-PID Cell  
Anti-PID encapsulation technology

### Optional Features



#### Perfect Black

Black anodized frame  
Black back sheet  
Black string ribbon



#### Floating PV Installation

Module backside blocks moisture permeability

# Mono- Crystalline Solar Module (UB-AH2)

## 60 cells (305~330 Watt)

Electrical Data / STC (UB-AH2) : Irradiance of 1000W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25 °C

Nominal Max Power	P <sub>max</sub> (Wp)	305	310	315	320	325	330
Voltage at P <sub>max</sub>	V <sub>mp</sub> (V)	32.9	33.3	33.7	34.1	34.5	34.9
Current at P <sub>max</sub>	I <sub>mp</sub> (A)	9.28	9.31	9.35	9.39	9.43	9.46
Open Circuit Voltage	V <sub>oc</sub> (V)	40.7	41.1	41.5	41.9	42.3	42.7
Short Circuit Current	I <sub>sc</sub> (A)	9.79	9.82	9.86	9.90	9.94	9.97
Module Efficiency	%	18.21%	18.51%	18.81%	19.10%	19.40%	19.70%
Operating Temperature		-40 °C ~ +85 °C					
Max. System Voltage		1500 Vdc					
Max. Series Fuse Rating		20A					
Max. Reverse Current		20A					
Power tolerance		-0 ~ +5W					

Electrical Data / NOCT (UB-AH2) : Irradiance of 800W/m<sup>2</sup>, spectrum AM 1.5 and Ambient Temperature of 20 °C, wind speed 1m/s

Nominal Max Power	P <sub>max</sub> (Wp)	227.5	230.9	234.6	238.8	242.2	245.8
Voltage at P <sub>max</sub>	V <sub>mp</sub> (V)	30.8	31.1	31.5	31.9	32.2	32.5
Current at P <sub>max</sub>	I <sub>mp</sub> (A)	7.38	7.42	7.46	7.49	7.53	7.56
Open Circuit Voltage	V <sub>oc</sub> (V)	37.9	38.3	38.6	39.0	39.3	39.7
Short Circuit Current	I <sub>sc</sub> (A)	7.91	7.93	7.97	8.00	8.03	8.06

### Mechanical Data

Cell Type	Mono-crystalline
Cell Arrangement	60 (6 x 10)
Dimensions	1675 x 1000 x 35mm (65.94 x 39.37 x 1.38in)
Weight	18.7kg(41.2 lbs)
Stand. Packaging	29pcs (vertical)
Module Pieces per Container	754pcs
Pallets per Container	26
Frame	Anodized aluminum
Front glass	3.2mm(0.13in) tempered glass
J-Box	IP68, 3 diodes
Output cable	(+)1000mm(39.37in), (-)1000mm(39.37in), 12AWG
Connectors	MC4 compatible
Module Fire Performance	Type 1 / Class C

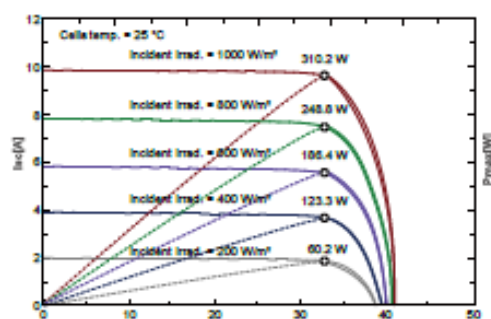
### Warranties

Product	12 years
Performance	25 years linear power warranty (>82.2%)

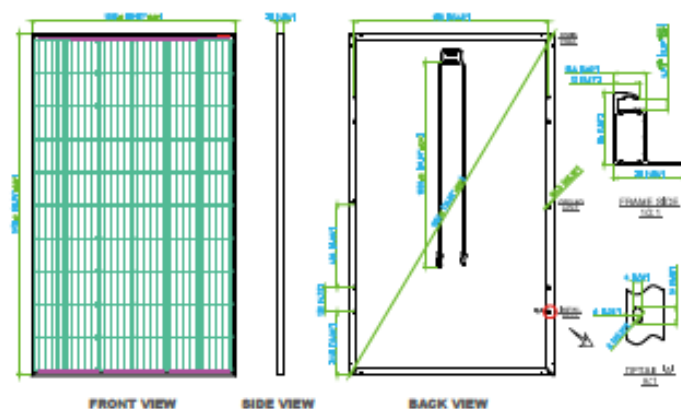
### Temperature Characteristics

Specifications	Data
Temperature coefficient (P <sub>max</sub> )	-0.36
Temperature coefficient (V <sub>oc</sub> )	-0.27
Temperature coefficient (I <sub>sc</sub> )	0.05
Normal Operating Cell Temperature	44.6±2 °C

### I-V Curve according to Irradiance



### MODULE DIAGRAM unit : mm (inch)



**Hansol**  
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