

Mono

# 144 cells

(385~405Watt)



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  
UL 1703 Fire Rating Type1  
UL790 Fire Rating Class C  
Assembled in Korea

## Key Features



### Linear Performance Warranty

12 Years product warranty  
25 Years linear performance warranty



### 1,500V

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



### Certified Durability

5,400 Pa snow load  
2,400 Pa wind load

## Optional Features



### Perfect Black

Black anodized frame  
Black back sheet  
Black string ribbon



### Floating PV Installation

Module backside blocks moisture permeability

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Electrical Data / STC (UD-HH2) : Irradiance of 1000W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C

Model		HS385UD-HH2	HS390UD-HH2	HS395UD-HH2	HS400UD-HH2	HS405UD-HH2
Nominal Max Power	Pmax(Wp)	385	390	395	400	405
Voltage at Pmax	Vmp(V)	40.9	41.1	41.3	41.5	41.7
Current at Pmax	Imp(A)	9.41	9.49	9.57	9.64	9.72
Open Circuit Voltage	Voc(V) ±3%	48.5	48.7	48.9	49.1	49.3
Short Circuit Current	Isc(A) ±3%	9.93	10.01	10.09	10.16	10.24
Module Efficiency	%	18.89%	19.13%	19.38%	19.63%	19.87%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500Vdc					
Max. Series Fuse Rating	20A					
Max. Reverse Current	20A					
Power tolerance	-0 ~ +5W					

Electrical Data / NOCT (UD-HH2) : Irradiance of 800W/m<sup>2</sup>, spectrum AM 1.5 and Ambient Temperature 20°C, wind speed 1m/s

Nominal Max Power		Pmax(Wp)	284.0	287.7	291.5	295.0	299.0
Voltage at Pmax	Vmp(V)	37.7	37.9	38.0	38.2	38.4	
Current at Pmax	Imp(A)	7.53	7.60	7.66	7.72	7.78	
Open Circuit Voltage	Voc(V)	45.0	45.2	45.4	45.6	45.7	
Short Circuit Current	Isc(A)	8.01	8.08	8.14	8.20	8.26	

### Mechanical Data

Cell Type	Mono-crystalline, 6 inch
Cell Arrangement	144 Half Cell (6x24)
Dimensions	2018 x 1010 x 40mm / (79.45 x 39.76 x 1.57in)
Weight	23kg (50.7 lbs)
Stand. Packaging	26pcs (Vertical)
Module Pieces per Container	572pcs
Pallets per Container	22
Frame	Anodized aluminum
Front Glass	3.2mm Tempered glass
J-Box	IP68, 3 diodes
Output Cable	(+)1200mm(47.24in), (-)1200mm(47.24in), 12AWG
Connectors	QC4.10-35
Module Fire Performance	Type 1 / Class C

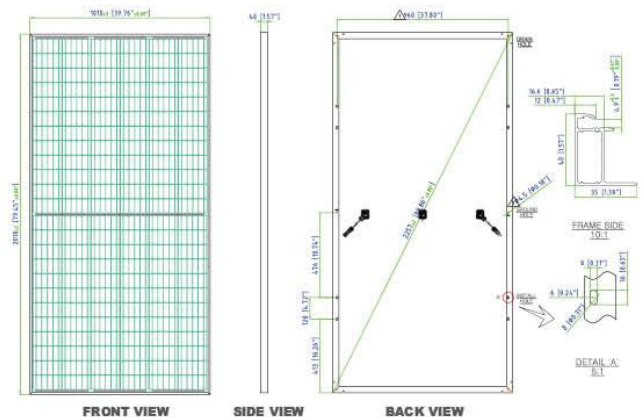
### Warranties

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

### Temperature Characteristics

Specifications	Data
Temperature coefficient (Pmax)	-0.34
Temperature coefficient (Voc)	-0.27
Temperature coefficient (Isc)	0.04
Normal Operating Cell Temperature	46.7±2°C

### MODULE DIAGRAM unit : mm(inch)



### I-V Curve according to Irradiance

