

Mono

144 cells

(365~385Watt)



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 Type1

Key Features



Linear Performance Warranty

10 Years product warranty
25 Years linear performance warranty



Certified Durability

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



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 (UD-HV1)

144 cells (365~385 Watt)

Electrical Data / STC (UD-HV1) : Irradiance of 1000W/°C, spectrum AM 1.5 and cell temperature of 25°C

Nominal Max Power	Pmax (Wp)	365	370	375	380	385
Voltage at Pmax	Vmp (v)	39.4	39.6	39.8	40.0	40.2
Current at Pmax	Imp (A)	9.27	9.35	9.43	9.50	9.58
Open Circuit Voltage	Voc (v)	47.2	47.4	47.6	47.8	48.0
Short Circuit Current	Isc (A)	9.77	9.85	9.93	10.01	10.08
Module Efficiency	%	18.40%	18.65%	18.90%	19.15%	19.40%
Operating Temperature	-40 °C ~ +85 °C					
Max. System Voltage	1500 Vdc					
Max. Service Fuse Rating	20A					
Max. Reverse Current	20A					
Power tolerance	-0 ~ +5W					

Electrical Data / NOCT (UD-HV1) : Irradiance of 800W/°C, spectrum AM 1.5 and Ambient Temperature of 20°C, wind speed 1m/s

Nominal Max Power	Pmax (Wp)	271	275	279	283	287
Voltage at Pmax	Vmp (v)	36.4	36.6	36.8	37.0	37.2
Current at Pmax	Imp (A)	7.45	7.52	7.58	7.65	7.72
Open Circuit Voltage	Voc (v)	44.3	44.4	44.6	44.8	45.0
Short Circuit Current	Isc (A)	7.88	7.95	8.01	8.08	8.15

Mechanical Data

Cell Type	Mono-crystalline, 6 inch
Cell Arrangement	144 (12 x 12)
Dimensions	2000 x 992 x 40mm (78.74 x 39.06 x 1.57in)
Weight	22.6kg(50.0 lbs)
Stand. Packaging	27 pcs
Module Pieces per Container	594 pcs
Pallets per Container	22
Frame	Anodized aluminum
Front glass	3.2mm(0.13in) tempered glass
J-Box	IP68, 3 diodes
Output cable	(+)300mm(11.81in), (-)300mm(11.81in), 12AWG
Connectors	MC4 compatible
Module Fire Performance	Type 1

Warranties

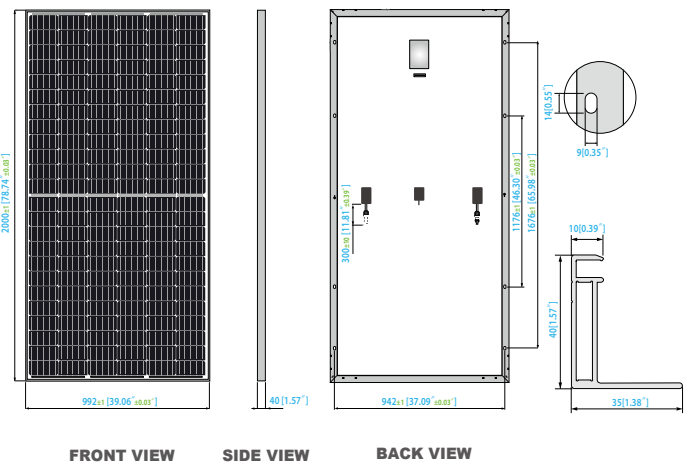
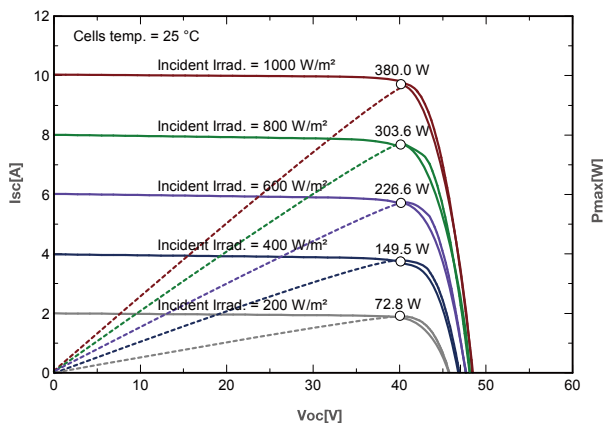
Product	10 years
Performance	10 years performance warranty (>90%) 25 years linear power warranty (>80%)

Temperature Characteristics

Specifications	Data
Temperature coefficient (Pmax)	-0.417%/°C
Temperature coefficient (Voc)	-0.306%/°C
Temperature coefficient (Isc)	+0.046%/°C
Normal Operating Cell Temperature	45.0 ± 2°C

MODULE DIAGRAM unit : mm (inch)

I-V Curve according to Irradiance



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