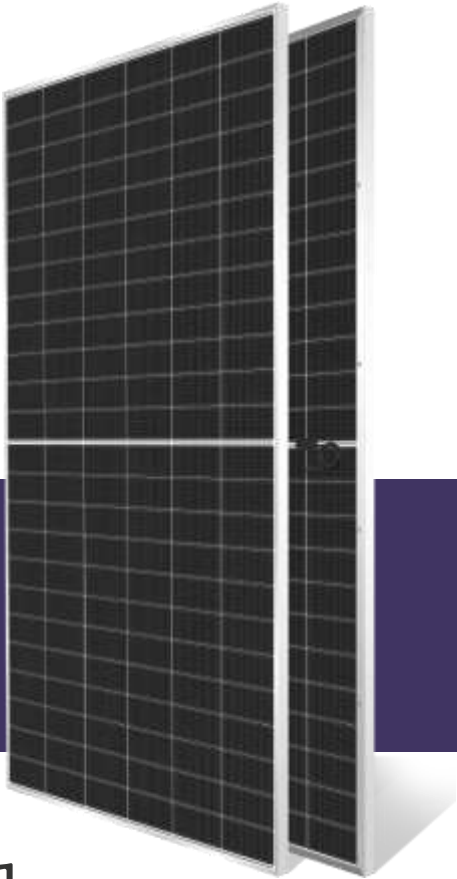


HD HYUNDAI SOLAR MODULE

OI
SERIES

HeteroMax
Premium N-Type HJT module
HiT-H580~600OI



High-End
Heterojunction
Technology



For commercial
& Utility
Applications



More Power
Generation
In Low Light

KOREA

Designed in
Korea



High Efficiency with
HJT Technology

HJT (Heterojunction Technology) cells with excellent light absorption and passivation effects can increase module efficiency compared to TOPCon and PERC modules.



Enhanced Power
Generation with low
Temp. Coefficient

Low temperature coefficient (-0.26%/°C) enables modules to generate more electricity than PERC & TOPCon modules in high temperature environments which allows the perfect suitability for rooftop installation with large temperature fluctuations.



Long-Term Reliability

HeteroMax™ is a durable and high-yield



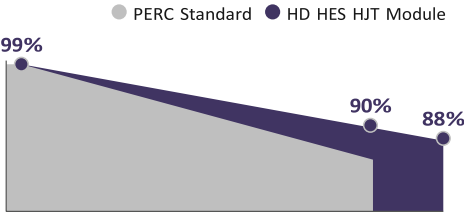
Higher Bifaciality



Certified Test Labs



HJT's natural bifacial symmetrical structure brings higher bifaciality up to 90% and generates approximately 2%-4% higher power than bifacial PERC Cells.



HD Hyundai's Warranty Provisions

- 15- Year Product Warranty
 - Materials and workmanship
- 95
%
90
%

- 30-Year Performance Warranty
 - First year degradation: 1% 85%
 - Linear warranty after second year: 80%
with 0.375%p annual degradation, 0 5 10 15 20 25 30
- 88% is guaranteed up to 30 years * Refer to HD HES standard warranty for details. **Certification**

product with an N-type wafer that eliminates LID. It uses a TCO film and features a doubleglass design to prevent internal material corrosion.



Reliable Warranty

HD HYUNDAI

HD Hyundai Energy Solutions, Global brand with powerful financial strength, offers a 30year warranty and comprehensive customer after-sales service.

Dimensions	2,278 mm (L) x 1,134 mm (W) x 30 mm (H)
Weight	32 kg
Solar Cells	N-Type HJT, 182mm x 91.75mm, 144 cells
Output Cables	Cable : (+)1,200 mm, (-)1,200mm / 4mm ² / UV resistant Connector : Stäubli MC4 original
Junction Box	IP68
Construction	Front Glass : anti-reflective solar glass, 2mm Rear Glass : solar glass, 2mm
Frame	Anodized aluminum alloy

Electrical Characteristics (STC*)

		HiT-HxxxOI				
		580	585	590	595	600
Nominal Output (Pmpp)	W	580	585	590	595	600
Open Circuit Voltage (Voc)	V	53.92	54.12	54.31	54.50	54.70
Short Circuit Current (Isc)	A	13.35	13.40	13.45	13.50	13.55
Voltage at Pmax (Vmpp)	V	45.00	45.21	45.42	45.63	45.84
Current at Pmax (Imp)	A	12.89	12.94	12.99	13.04	13.09
Module Efficiency	%	22.45	22.65	22.84	23.03	23.23
Maximum System Voltage	V	DC 1,500V (IEC)				
Temperature Coefficient of Pmax	%/°C	-0.26				
Temperature Coefficient of Voc	%/°C	-0.24				
Temperature Coefficient of Isc	%/°C	0.04				
Bifaciality	-	85% ± 5%				

*STC : Irradiance 1,000 W/m², cell temperature 25°C, AM=1.5 / Tolerance of Pmpp 0~+3%; Voc ±3%; Isc ±5% *Power Sorting Tolerance: 0~+5W

BSTC**

		580	585	590	595	600
Nominal Output (Pmpp)	W	640	645	650	655	660
Voltage at Pmax (Vmpp)	V	45.00	45.21	45.42	45.63	45.84
Current at Pmax (Imp)	A	14.23	14.27	14.32	14.36	14.40
Open Circuit Voltage (Voc)	V	53.92	54.12	54.31	54.50	54.70
Short Circuit Current (Isc)	A	14.73	14.77	14.82	14.86	14.91

**BSTC : Front side Irradiance 1,000 W/m², back side reflection irradiation 135 W/m², AM=1.5, Ambient temperature 25°C.

About HD Hyundai Energy Solutions

Established in 1972, HD Hyundai Group is one of the most trusted names in the heavy industries sector and is a Fortune 500 company. As a global leader and innovator, HD Hyundai is committed to building a future growth engine by developing and investing heavily in the field of renewable energy.

As a core energy business entity of HD Hyundai, HD Hyundai Energy Solutions has strong pride in providing high-quality PV products to more than 3,000 customers worldwide.

Mechanical Characteristics

Container Size	40	Modules
Pallets Per Container	20	Modules (pcs)

Shipping Configurations



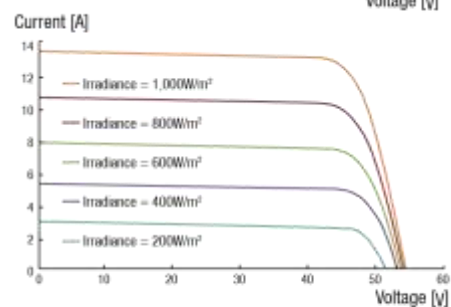
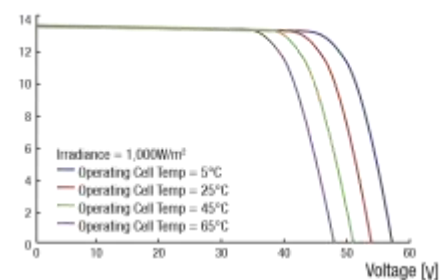
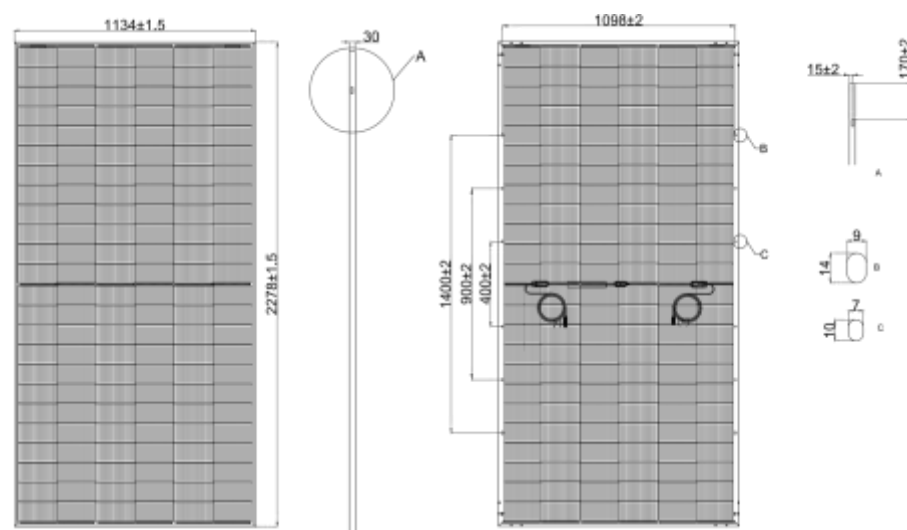
Module Diagram (unit : mm) Installation Safety Guide

- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

Nominal Operating Cell Temp. (NOCT)	44°C ± 2°C
Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	DC 1,500V (IEC)
Maximum Reverse Current	25A
Maximum Test Load	Front 5,400 Pa Rear 2,400 Pa
Fire Rating Class	C

I-V Curves (HiT-H5900I)

Current [A]



Manufactured in China



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