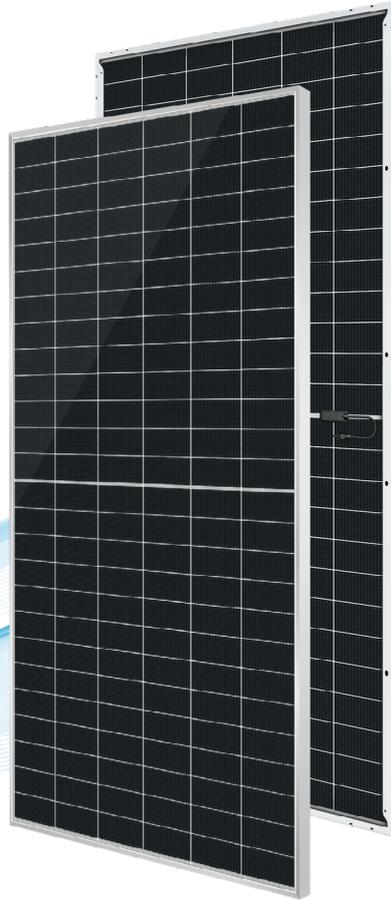


HD HYUNDAI SOLAR MODULE

NJ Series

Premium N-Type TOPCon Module

HiC-T625NJ | HiC-T630NJ | HiC-T635NJ | HiC-T640NJ | HiC-T645NJ



23.1%
High Efficiency



High-End
TOPCon
Technology



Higher
Bifaciality



Long-Term
Reliability



For Commercial
& Utility
Applications

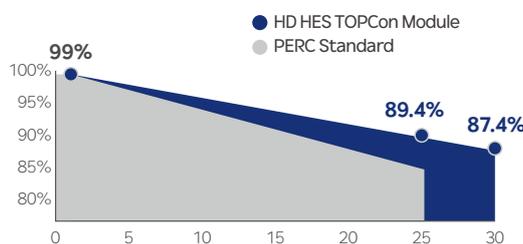
HD Hyundai's Warranty Provisions

15
YEARS

- 15-Year Product Warranty
- Materials and workmanship

30
YEARS

- 30-Year Performance Warranty
- First year degradation: 1%
- Linear warranty after initial year: with 0.4%p annual degradation, 87.4% is guaranteed up to 30years



*Refer to HD HES standard warranty for details.

Certification



- ISO 9001:2015:ISO Quality Management System
- ISO 14001:2015:ISO Environment Management System
- ISO 45001:Occupational Health and Safety
- IEC 61215, IEC 61730



Electrical Characteristics (STC*)

HiC-TxxxNJ						
Item	Unit	625	630	635	640	645
Nominal Output (Pmax)	W	625	630	635	640	645
Open Circuit Voltage (Voc)	V	56.28	56.48	56.68	56.88	57.08
Short Circuit Current (Isc)	A	13.96	14.02	14.08	14.14	14.20
Voltage at Pmax (Vmpp)	V	47.33	47.51	47.68	47.86	48.03
Current at Pmax (Impp)	A	13.20	13.26	13.32	13.37	13.43
Module Efficiency	%	22.4	22.5	22.7	22.9	23.1
Power Selection	%	0 ~ +3				
Temperature Coefficient of Pmax	%/°C	-0.29				
Temperature Coefficient of Voc	%/°C	-0.25				
Temperature Coefficient of Isc	%/°C	0.043				

*STC : Irradiance 1,000 W/m², cell temperature 25°C, AM=1.5 / Test uncertainty for Pmax ±3%; Voc ±3%; Isc ±4%

BNPI** (Bifacial Nameplate Irradiance)

Item	Unit	625	630	635	640	645
Nominal Output (Pmax)	W	687	693	698	704	709
Open Circuit Voltage (Voc)	V	56.30	56.50	56.70	56.90	57.10
Short Circuit Current (Isc)	A	15.39	15.45	15.52	15.59	15.65
Voltage at Pmax (Vmpp)	V	47.35	47.52	47.70	47.87	48.04
Current at Pmax (Impp)	A	14.51	14.58	14.64	14.70	14.76

**The electrical properties of BNPI are measured under the irradiance corresponding to 1000 W/m² on the module front and 135 W/m² on the module rear.

Mechanical Characteristics

Dimensions	2,465 (L) x 1,134 (W) x 30mm (H)
Weight	34.7 kg
Solar Cells	N-Type TOPCon, 156 (6x26) monocrystalline half-cut bifacial cells
Output Cables	Cable : 4mm ² / 12AWG / (+)350 mm, (-)250 mm / Customized length Connector : HCB40 (Standard) / MC4-EVO2A (Optional)
Junction Box	3-part, 3 bypass diodes, IP68 rated
Construction	Front : 2.0mm semi-tempered solar glass with anti-reflective coating Rear : 2.0mm semi-tempered solar glass
Frame	Anodized aluminum alloy

Installation Safety Guide

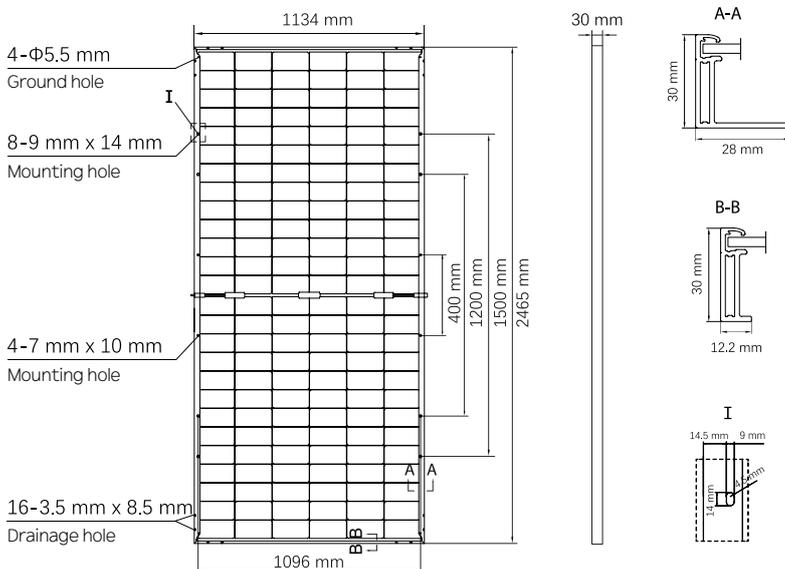
- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not handle or install modules when they are wet.

Nominal Module Operation Temperature	41°C ± 2°C
Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	DC 1,500 V
Maximum Reverse Current	30A
Maximum Test Load	Front 5,400Pa Rear 2,400Pa

Shipping Configurations

Container Size (HC)	40'	Modules Per Pallet (pcs)	36
Pallets Per Container	16	Modules Per Container (pcs)	576

Module Diagram (unit : mm)



I-V Curves (HiC-T630NJ)

