

HD HYUNDAI SOLAR MODULE

CH Series

Premium N-Type TOPCon Module

HiT-T620CH | HiT-T625CH | HiT-T630CH | HiT-T635CH | HiT-T640CH



23.69%
High Efficiency



High-End
TOPCon
Technology



Higher
Bifaciality



Long-Term
Reliability



For Commercial
& Utility
Applications

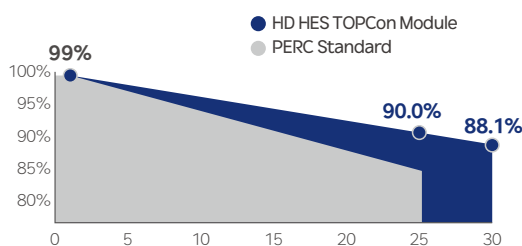
HD Hyundai's Warranty Provisions

12
YEARS

- 12-Year Product Warranty
- Materials and workmanship

30
YEARS

- 30-Year Performance Warranty
- First year degradation: 1%
- Linear warranty after initial year: with 0.375%p annual degradation, 88.1% is guaranteed up to 30years



*Refer to HD HES standard warranty for details.

Certification



- ISO 9001:2015: Quality Management System
- ISO 14001:2015: Environmental Management System
- ISO 45001:2018: Occupational Health and Safety Management System
- IEC 61215, IEC 61730

Electrical Characteristics (STC*)

HiT-TxxxCH						
Item	Unit	620	625	630	635	640
Nominal Output (Pmax)	W	620	625	630	635	640
Open Circuit Voltage (Voc)	V	48.95	49.10	49.25	49.40	49.55
Short Circuit Current (Isc)	A	15.71	15.77	15.83	15.89	15.95
Voltage at Pmax (Vmpp)	V	41.60	41.75	41.90	42.05	42.19
Current at Pmax (Impp)	A	14.96	15.02	15.08	15.14	15.19
Module Efficiency	%	22.95	23.14	23.32	23.51	23.69
Power Selection	W	0~+5				
Temperature Coefficient of Pmax	%/°C	-0.28				
Temperature Coefficient of Voc	%/°C	-0.25				
Temperature Coefficient of Isc	%/°C	0.046				
Bifaciality	%	85±10				

*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	620	625	630	635	640
Nominal Output (Pmax)	W	690	695	700	705	710
Open Circuit Voltage (Voc)	V	48.95	49.10	49.25	49.40	49.55
Short Circuit Current (Isc)	A	17.51	17.58	17.65	17.71	17.78
Voltage at Pmax (Vmpp)	V	41.60	41.75	41.90	42.05	42.19
Current at Pmax (Impp)	A	16.68	16.75	16.82	16.88	16.94

**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.

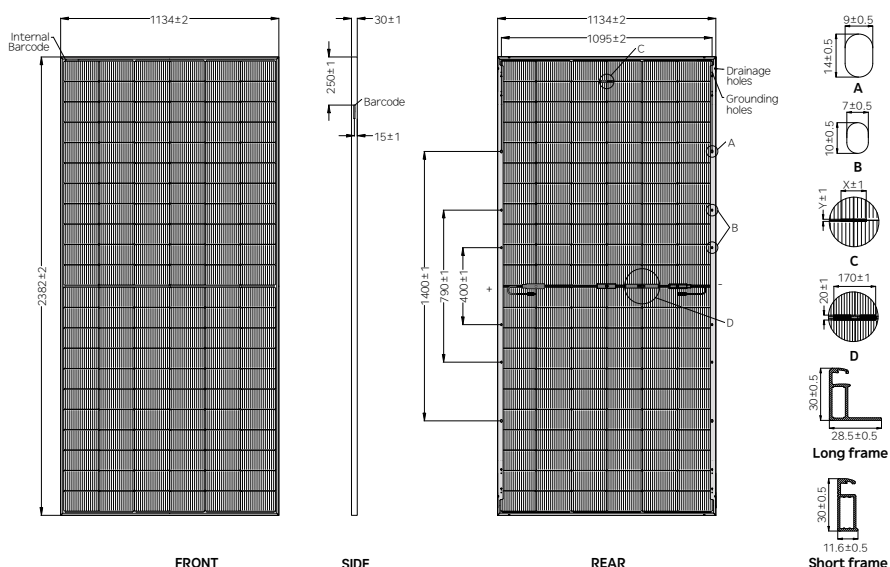
Mechanical Characteristics

Dimensions	2,382 mm (L) x 1,134 mm (W) x 30 mm (H)
Weight	31.8 kg
Solar Cells	N-Type TOPCon, 132 (6x22) monocrystalline half-cut bifacial cells
Output Cables	Cable : 4mm ² / (+)350 mm, (-)250 mm / Customized length Connector : MC4 or MC4 Compatible
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

Shipping Configurations

Container Size (HC)	40	Modules Per Pallet (pcs)	36
Pallets Per Container (pcs)	20	Modules Per Container (pcs)	720

Module Diagram (unit : mm)



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	45°C ± 2°C
Operating Temperature	-40°C~+90°C
Maximum System Voltage	DC 1,500 V
Maximum Reverse Current	30A
Maximum Test Load	Front 5,400Pa Rear 2,400Pa

I-V Curves (HiT-T630CH)

