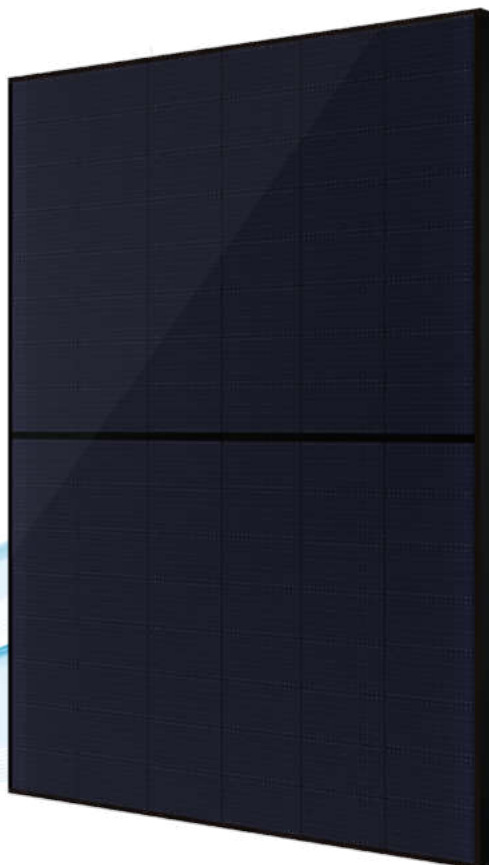


HD HYUNDAI SOLAR MODULE

HeteroMax™ (LE-FB Series)

Premium N-Type HJT module

HiT-H435LE-FB | HiT-H440LE-FB | HiT-H445LE-FB | HiT-H450LE-FB | HiT-H455LE-FB



22.8%
High Efficiency



High-End
Heterojunction
Technology



Enhanced Power
Generation with low
Temp. Coefficient



More Power
Generation
In Low Light



For Residential
(Full Black Design)

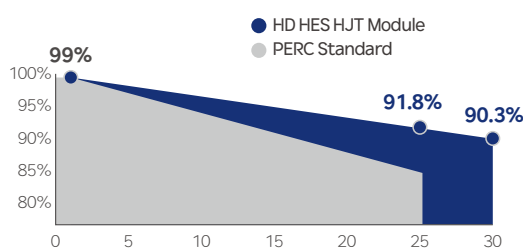
HD Hyundai's Warranty Provisions

30
YEARS

- 30-Year Product Warranty
- Materials and workmanship

30
YEARS

- 30-Year Performance Warranty
- First year degradation: 1%
- Linear warranty after initial year:
with 0.3%p annual degradation,
90.3% 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*)

HiT-HxxxLE-FB						
Item	Unit	435	440	445	450	455
Nominal Output (Pmax)	W	435	440	445	450	455
Open Circuit Voltage (Voc)	V	36.42	36.52	36.62	36.72	36.82
Short Circuit Current (Isc)	A	15.20	15.31	15.42	15.53	15.64
Voltage at Pmax (Vmpp)	V	30.50	30.61	30.72	30.83	30.94
Current at Pmax (Impp)	A	14.27	14.38	14.49	14.60	14.71
Module Efficiency	%	21.8	22.0	22.3	22.5	22.8
Power Selection	W	0 ~ +5				
Temperature Coefficient of Pmax	%/K	-0.24				
Temperature Coefficient of Voc	%/K	-0.22				
Temperature Coefficient of Isc	%/K	0.04				

*STC : Irradiance 1,000 W/m², cell temperature 25°C, AM=1.5 / Test uncertainty for Pmax ±3%; Voc ±3%; Isc ±5%

NMOT

Item	Unit	435	440	445	450	455
Nominal Output (Pmax)	W	332	335	339	343	347
Open Circuit Voltage (Voc)	V	34.76	34.86	34.95	35.05	35.14
Short Circuit Current (Isc)	A	12.15	12.24	12.32	12.41	12.50
Voltage at Pmax (Vmpp)	V	29.12	29.23	29.34	29.45	29.55
Current at Pmax (Impp)	A	11.40	11.49	11.58	11.67	11.76

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Mechanical Characteristics

Dimensions	1,762 mm (L) x 1,134 mm (W) x 30 mm (H)
Weight	21.8 kg
Solar Cells	N-Type HJT, 96 (6x16) monocrystalline half-cut bifacial cells
Output Cables	Cable : 4mm ² / 12AWG / (+)1,250 mm, (-)1,250 mm / Customized length Connector : MC4 / MC4-Evo2A / PV-H4 / Z4S-abcd / ST4
Junction Box	3-part, 3 bypass diodes, IP68 rated
Construction	Front : 1.6mm semi-tempered solar glass with high cut-off and anti-reflective coating Rear : 1.6mm semi-tempered solar glass
Frame	Black Anodized aluminum alloy

Installation Safety Guide

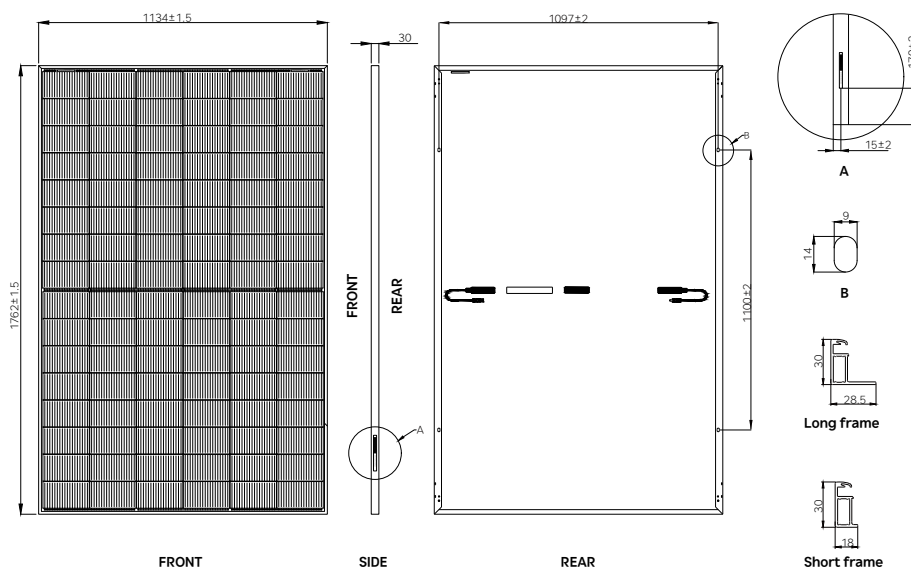
- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

Nominal Module Operation Temperature	44°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	26	Modules Per Container (pcs)	936

Module Diagram (unit : mm)



I-V Curves (HiT-H445LE-FB)

