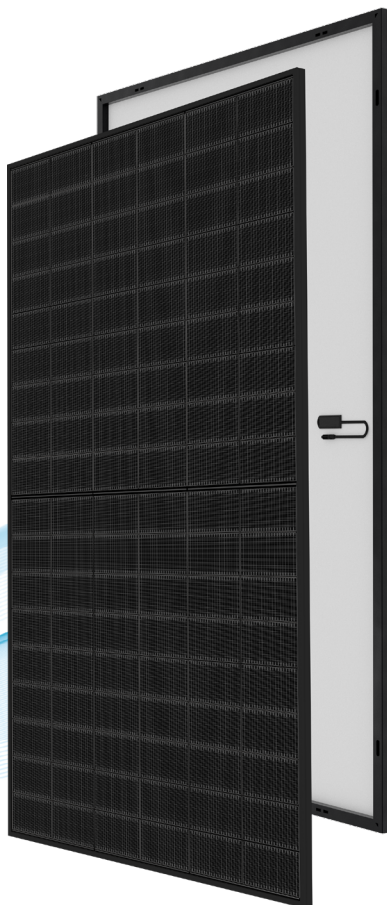


HD HYUNDAI SOLAR MODULE

HeteroMax™ (LF-FB(ZB) Series)

Premium N-Type HJT module

HiT-H500LF-FB(ZB) | HiT-H505LF-FB(ZB) | HiT-H510LF-FB(ZB) | HiT-H515LF-FB(ZB) | HiT-H520LF-FB(ZB)



23.3%
High Efficiency



High-End
Heterojunction
Technology



Enhanced Power
Generation with low
Temp. Coefficient



More Power
Generation
In Low Light



For Residential
(Full Black Design)

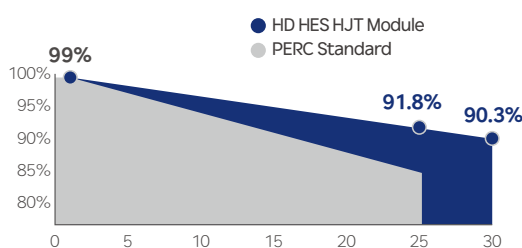
HD Hyundai's Warranty Provisions

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: 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-HxxxxLF-FB(ZB)						
Item	Unit	500	505	510	515	520
Nominal Output (Pmax)	W	500	505	510	515	520
Open Circuit Voltage (Voc)	V	40.63	40.71	40.79	40.88	40.96
Short Circuit Current (Isc)	A	15.09	15.18	15.26	15.33	15.42
Voltage at Pmax (Vmpp)	V	35.14	35.22	35.30	35.48	35.56
Current at Pmax (Impp)	A	14.31	14.40	14.49	14.58	14.67
Module Efficiency	%	22.4	22.7	22.9	23.1	23.3
Power Selection	W	0~+5				
Temperature Coefficient of Pmax	%/°C	-0.24				
Temperature Coefficient of Voc	%/°C	-0.22				
Temperature Coefficient of Isc	%/°C	0.04				

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

NMOT

Item	Unit	500	505	510	515	520
Nominal Output (Pmax)	W	378	382	385	389	393
Open Circuit Voltage (Voc)	V	39.14	39.22	39.30	39.39	39.46
Short Circuit Current (Isc)	A	11.79	11.86	11.92	11.98	12.05
Voltage at Pmax (Vmpp)	V	33.86	33.94	34.01	34.19	34.27
Current at Pmax (Impp)	A	11.18	11.25	11.32	11.39	11.46

**NMOT: Irradiancia 800 W/m², Temperatura ambiente 20°C, Velocidad del viento 1 m/s.

Mechanical Characteristics

Dimensions	1,961 mm (L) x 1,134 mm (W) x 30 mm (H)
Weight	27.6 kg
Solar Cells	N-Type HJT, 108 (6x18) monocrystalline half-cut bifacial cells
Output Cables	Cable : 4mm ² , (+):1,250mm, (-):1,250mm or Customized Connector : Original Stäubli MC4 or MC4-EVO2A
Junction Box	3-part, 3 bypass diodes, IP68 rated
Construction	Front : 2.0mm Double-coated Rolled Toughened Glass Rear : 2.0mm 3-hole_Glazing
Frame	Black Anodized aluminum alloy

Shipping Configurations

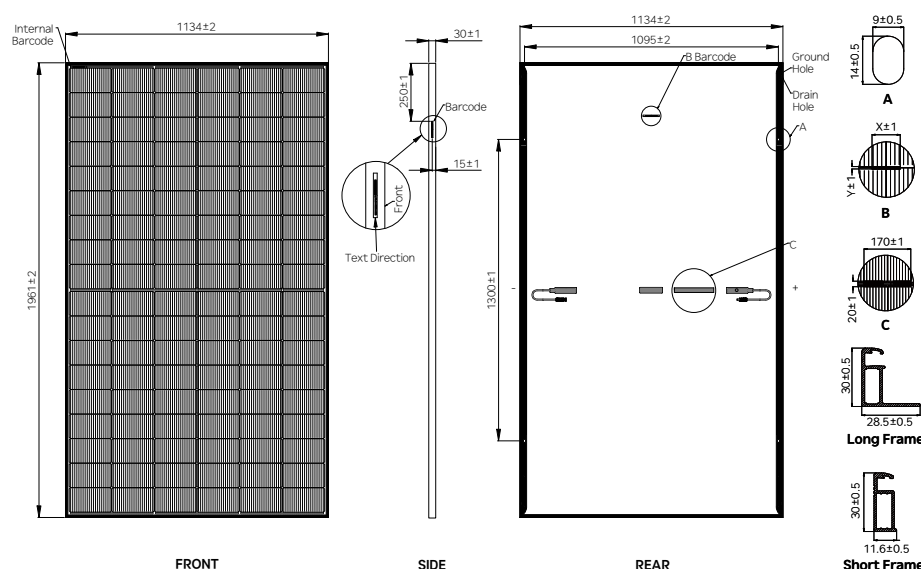
Container Size (HC)	40	Modules Per Pallet (pcs)	36
Pallets Per Container (pcs)	24	Modules Per Container (pcs)	864

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

Module Diagram (unit : mm)



I-V Curves (HiT-H510LF-FB(ZB))

