

HD HYUNDAI SOLAR MODULE

HeteroMax™ (CF-BF Series)

Premium N-Type HJT module

HiT-H495CF-BF | HiT-H500CF-BF | HiT-H505CF-BF | HiT-H510CF-BF | HiT-H515CF-BF



23.2%
High Efficiency



High-End
Heterojunction
Technology



Enhanced Power
Generation with low
Temp. Coefficient



More Power
Generation
In Low Light



For Residential
(Full Black Design)

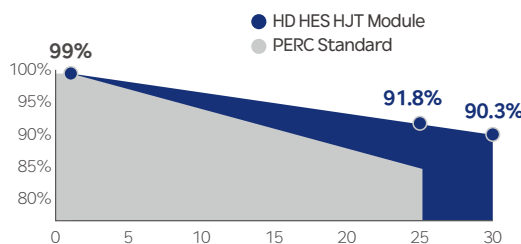
HD Hyundai's Warranty Provisions

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-HxxxCF-BF						
Item	Unit	495	500	505	510	515
Nominal Output (Pmax)	W	495	500	505	510	515
Open Circuit Voltage (Voc)	V	40.65	40.76	40.87	40.98	41.09
Short Circuit Current (Isc)	A	15.37	15.48	15.59	15.70	15.81
Voltage at Pmax (Vmpp)	V	34.05	34.16	34.27	34.38	34.49
Current at Pmax (Impp)	A	14.54	14.64	14.74	14.84	14.94
Module Efficiency	%	22.3	22.5	22.7	22.9	23.2
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				
Bifaciality	%	90±5				

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

BNPI** (Bifacial Nameplate Irradiance)

Item	Unit	495	500	505	510	515
Nominal Output (Pmax)	W	555	560	566	571	577
Open Circuit Voltage (Voc)	V	40.79	40.90	41.01	41.12	41.23
Short Circuit Current (Isc)	A	17.24	17.36	17.48	17.61	17.73
Voltage at Pmax (Vmpp)	V	34.17	34.28	34.39	34.50	34.61
Current at Pmax (Impp)	A	16.25	16.36	16.47	16.58	16.69

**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.

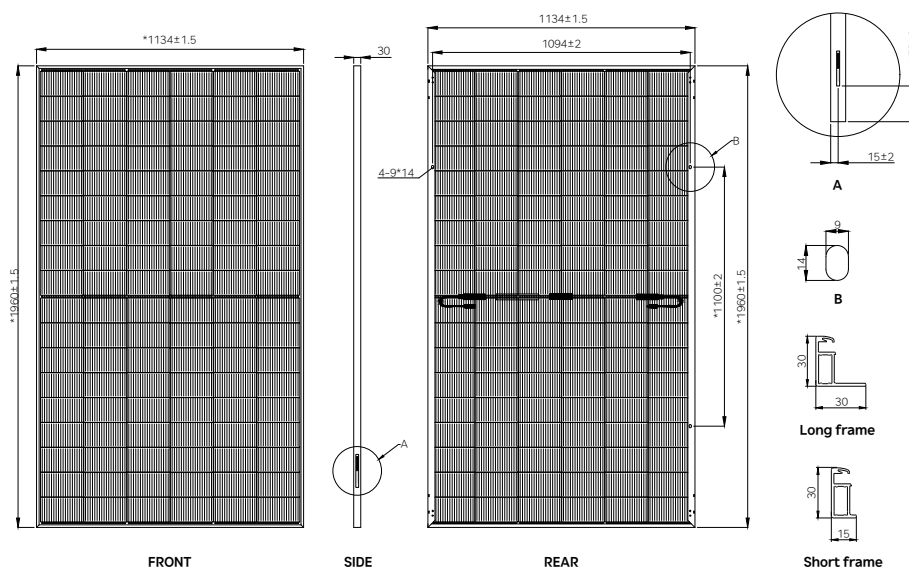
Mechanical Characteristics

Dimensions	1,960 mm (L) x 1,134 mm (W) x 30 mm (H)
Weight	27.4 kg
Solar Cells	N-Type HJT, 108 (6x18) 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 : 2.0mm semi-tempered solar glass with high cut-off and 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	24	Modules Per Container (pcs)	864

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 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

I-V Curves (HiT-H505CF-BF)

