

HD HYUNDAI SOLAR MODULE

HI Series

Customized Module

HiS-C290HI | HiS-C295HI | HiS-C300HI | HiS-C305HI | HiS-C310HI | HiS-C315HI



Tailored Design
for existing
Solar Systems



Long-Term
Reliability



More Power
Generation
In Low Light



High
Durability



For Commercial
& Utility
Applications

HD Hyundai Energy Solutions

Established in 1972, HD Hyundai Group is one of the most trusted names in the heavy industries sector and is a Fortune 500 company. As a global leader and innovator, HD Hyundai is committed to building a future growth engine by developing and investing heavily in the field of renewable energy.

As a core energy business entity of HD Hyundai, HD Hyundai Energy Solutions has strong pride in providing high-quality PV products to more than 3,000 customers worldwide.

Certification



- UL 61215 / UL 61730 / IEC 61215 / IEC 61730 Certified
- ISO 9001 : Quality management systems
- ISO 14001 : Environmental management systems
- ISO 45001 : Occupational health and safety management systems

Electrical Characteristics (STC*)

HiS-CxxxHI							
Item	Unit	290	295	300	305	310	315
Nominal Output (Pmax)	W	290	295	300	305	310	315
Open Circuit Voltage (Voc)	V	41.17	41.27	41.37	41.47	41.57	41.67
Short Circuit Current (Isc)	A	9.19	9.29	9.39	9.49	9.59	9.67
Voltage at Pmax (Vmpp)	V	34.17	34.28	34.41	34.52	34.63	34.74
Current at Pmax (Impp)	A	8.50	8.61	8.73	8.84	8.96	9.07
Module Efficiency	%	14.9	15.2	15.5	15.7	16.0	16.2
Power Selection	W	0 ~ +5					
Temperature Coefficient of Pmax	%/K	-0.347					
Temperature Coefficient of Voc	%/K	-0.270					
Temperature Coefficient of Isc	%/K	0.037					

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

NMOT**

Item	Unit	290	295	300	305	310	315
Nominal Output (Pmax)	W	217	220	224	227	231	235
Open Circuit Voltage (Voc)	V	38.48	38.58	38.66	38.76	38.85	38.94
Short Circuit Current (Isc)	A	7.41	7.49	7.57	7.65	7.73	7.79
Voltage at Pmax (Vmpp)	V	31.42	31.54	31.66	31.72	31.93	32.07
Current at Pmax (Impp)	A	6.91	7.00	7.09	7.17	7.26	7.33

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

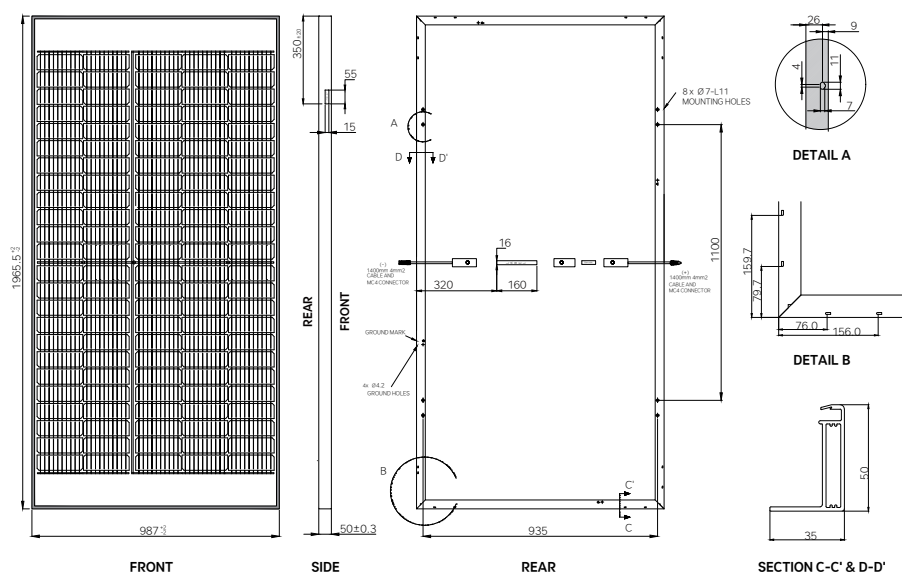
Mechanical Characteristics

Dimensions	1,965.5 (L) x 987 (W) x 50mm (H)
Weight	23.2 kg
Solar Cells	Mono PERC, 120(5x24) monocrystalline 3-cut cells
Output Cables	Cable : (+)1,000mm, (-)1,000mm/ Customized length available Connector : Stäubli MC4 genuine Connector / Compatible, IP68
Junction Box	3-part, 3 bypass diodes, IP68 rated
Construction	Front : 3.2mm full-tempered solar glass with high transmittance, and antireflective coating Rear : Highly resistant and weatherproof film
Frame	Anodized aluminum alloy

Shipping Configurations

Container Size (HC)	40	Modules Per Pallet (pcs)	20
Pallets Per Container	24	Modules Per Container (pcs)	480

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	45.5°C ± 2°C
Operating Temperature	-40°C~+85°C
Maximum System Voltage	DC 1,000 V
Maximum Reverse Current	20A
Maximum Test Load	Front 5,400Pa Rear 2,400Pa
Fire Performance Type	1

I-V Curves (HiS-C305HI)

