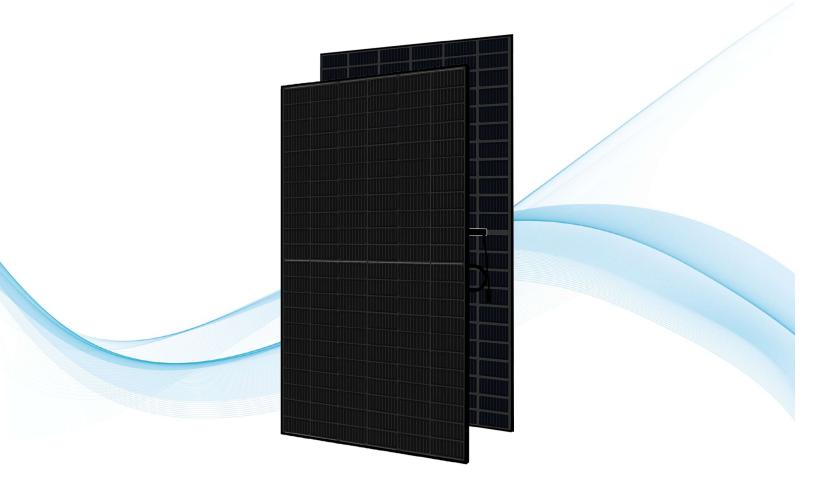


HD HYUNDAI SOLAR MODULE

YH Series

Dual Black Max

HiS-S400YH(BK) I HiS-S405YH(BK) I HiS-S410YH(BK)





Maximum Test Load Front 5,400Pa Rear 5,400Pa



More Power Generation In Low Light



UL 1,500V IEC 1,500V Saves Bos Costs



High Reliailbity in all-weather



For Residential (Full Black Design)

HD Hyundai's Warranty Provisions



- 25-Year Product Warranty
- · Materials and workmanship



- 25-Year Performance Warranty
- · Initial year : 98.0%
- · Linear warranty after initial year:

Certification



UL61730 certified by UL

- · IEC 61215: 2016 Hailstone 40mm by kiwa PVEL
- ISO 9001: 2015 Quality management systems
- · ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety

Electrical Characteristics

HiS-SxxxYH(BK)					
ltem	Unit	400	405	410	
Nominal Output (Pmpp)	W	400	405	410	
Open Circuit Voltage (Voc)	V	45.3	45.6	45.9	
Short Circuit Current (ISC)	А	11.25	11.33	11.40	
Voltage at Pmax (Vmpp)	V	37.7	37.9	38.1	
Current at Pmax (Impp)	А	10.61	10.69	10.76	
Module Efficiency	%	20.0	20.3	20.5	
Temperature Coefficient of Pmax	%/K		-0.347		
Temperature Coefficient of Voc	%/K		-0.268		
Temperature Coefficient of Isc	%/K		+0.032		

 $^{^*}$ All data at STC / Measurement tolerances Pmpp $\pm 3\%$; lsc; Voc $\pm 3\%$. Above data may be changed without prior notice

	Additional Power Gain from rear side, Pmpp[W]						
Ite	em	400	405	410			
	5%	415	425	431			
Power Gain	15%	454	466	472			
	25%	494	506	513			

Mechanical Characteristics

Dimensions	1,924mm (L) x 1,038mm (W) x 32mm (H)	
Weight	21.1 kg	
Solar Cells	Mono PERC, 132 (6x22) monocrystalline half-cut bifacial cells	
Output Cables	Cable : 4mm² / 12AWG / (+)1,200mm, (-)1,200mm / Customized length 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 (Black meshd transparent)	
Frame	Anodized aluminum alloy	

Shipping Configurations

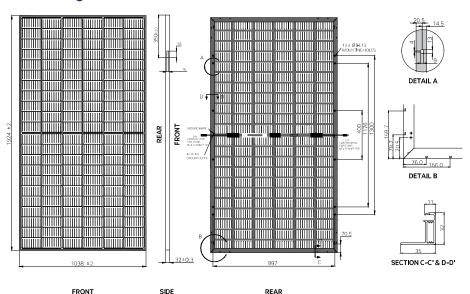
Container Size (HC)	40′	Modules Per Pallet (pcs)	32
Pallets Per Container	24	Modules Per Container (pcs)	768

Installation Safety Guide

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

45.5°C ± 2°C
-40°C~+85°C
DC 1,500 V
20A
Front 5,400Pa Rear 5,400Pa
Type 1

Module Diagram (unit: mm)



I-V Curves

