

HYUNDAI SOLAR MODULE



XG SERIES

Black Max

HiS-S350XG(BK) HiS-S355XG(BK) HiS-S360XG(BK)
HiS-S365XG(BK) HiS-S370XG(BK) HiS-S375XG(BK)



120

Monofacial
Cells



More Power
Generation
In Low Light



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



All black Module
For Sleek Design



Half-Cut & Multi-Wire Technology

Improved current flow with half-cut technology and 9 thin wiring technology allows high module efficiency of up to 20.6%. It also reduces power generation loss due to micro-cracks.



Mechanical Strength

Tempered glass and reinforced frame design withstand rigorous weather conditions such as heavy snow(5,400 Pa) and strong wind(5,400 Pa).



Anti-LID / PID

Both LID(Light Induced Degradation) and PID(Potential Induced Degradation) are significantly reduced to ensure higher actual yield during lifetime.



Corrosion Resistant

Various tests under harsh environmental conditions such as ammonia and salt-mist passed.



UL / VDE Test Labs

Hyundai's R&D center is an accredited test laboratory of both UL and VDE.



Reliable Warranty

Global brand with powerful financial strength provide reliable 25-year warranty.

Hyundai's Warranty Provisions



- 25-Year Product Warranty
- Materials and workmanship



- 25-Year Performance Warranty
- Initial year : 98.0%
- Linear warranty after second year: with 0.54%p annual degradation, 85.0% is guaranteed up to 25 years

About Hyundai Energy Solutions

Established in 1972, Hyundai Heavy Industries 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, Hyundai Heavy Industries 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 HHI, Hyundai Energy Solutions has strong pride in providing high-quality PV products to more than 3,000 customers worldwide.

Certification



· UL61730 certified by UL, Type 1(for Fire Class A)

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Electrical Characteristics

		Mono-Crystalline Type(HiS-XG(BK))					
		350	355	360	365	370	375
Nominal Output (P _{mpp})	W	350	355	360	365	370	375
Open Circuit Voltage (V _{oc})	V	40.3	40.6	41.0	41.3	41.5	41.8
Short Circuit Current (I _{sc})	A	11.06	11.13	11.20	11.28	11.35	11.42
Voltage at P _{max} (V _{mpp})	V	33.6	33.9	34.1	34.3	34.6	34.8
Current at P _{max} (I _{mpp})	A	10.42	10.49	10.56	10.64	10.71	10.78
Module Efficiency	%	19.2	19.5	19.8	20.1	20.3	20.6
Cell Type	-	Mono crystalline, 9busbar					
Maximum System Voltage	V	1,500					
Temperature Coefficient of P _{max}	%/K	-0.347					
Temperature Coefficient of V _{oc}	%/K	-0.27					
Temperature Coefficient of I _{sc}	%/K	0.037					

*All data at STC (Measurement tolerances P_{mpp} ±3%; I_{sc} ; V_{oc} ±3%). Above data may be changed without prior notice.

Mechanical Characteristics

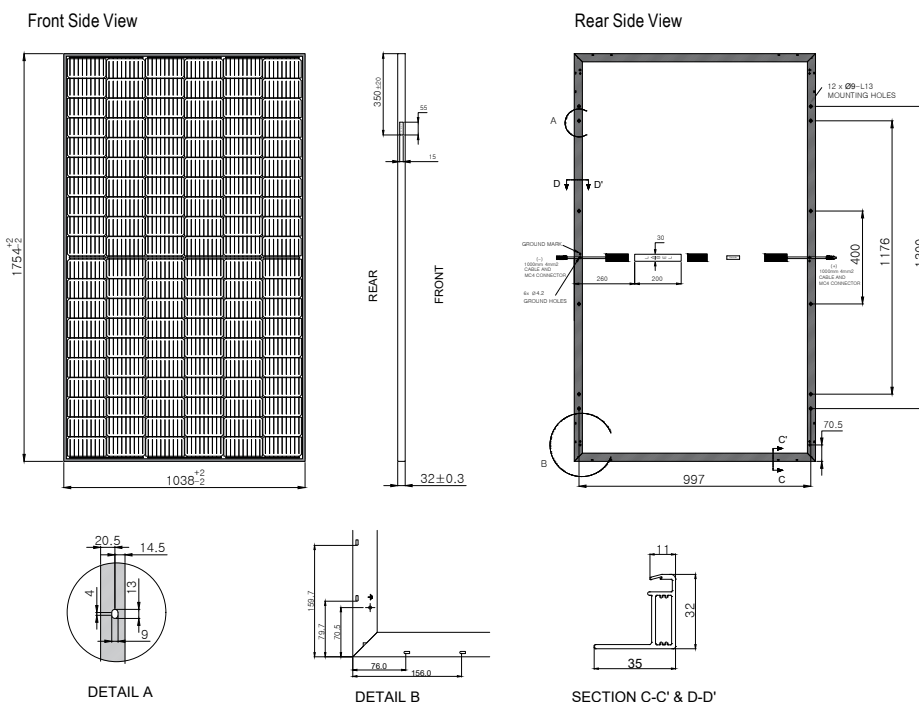
Dimensions	1,038 mm (W) x 1,754 mm (L) x 32 mm(H)
Weight	Approx. 19.9 kg
Solar Cells	120 half cut monofacial cells (2 parallel x 60 half cells in series)
Output Cables	Cable: 1,000mm / 4mm ² Connector: MC4 genuine connector
Junction Box	IP68, weatherproof, IEC certified (UL listed)
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade
Construction	Front : 3.2 mm, High Transmission, AR Coated Tempered Glass Encapsulant : EVA Back Sheet : Black Backsheet
Frame	Anodized aluminum alloy type 6063

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 Operating Cell Temperature	45.5°C ± 2°C
Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	DC 1,500V
Maximum Reverse Current	20A
Maximum Test Load	Front 5,400 Pa (113 psf) Rear 5,400 Pa (113 psf)

Module Diagram (unit : mm)



I-V Curves

