HYUNDAI SOLAR MODULE



PERC Shingled

HiE-S340SG HiE-S345SG HiE-S350SG



Shingled Technology For Both Residential & Commercial Applications



More Power Generation In Low Light



PERC Shingled Technology

PERC Shingled Technology provides ultra -high efficiency with better performance in low irradiation. Maximizes installation capacity in limited space.



Extended Product Warranty

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

Hyundai's Warranty Provisions



25

YEARS

• 25-Year Product Warranty • On materials and workmanship

• 25-Year Performance Warranty

Initial year: 98.0%
Linear warranty after second year: with 0.55%p annual degradation,

84.8% is guaranteed up to 25 years

Certification





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



Mechanical Strength

Tempered glass and reinforced frame design withstand rigorous weather conditions such as heavy snow and strong wind.

Hyundai's R&D center is an accredited test

laboratory of both UL and VDE.

UL / VDE Test Labs



Corrosion Resistant

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

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.



Electrical Characteristics

Electrical Characteristics		Mono-Crystalline Module (HiE-SSG)		
		340	345	350
Nominal Output (Pmpp)	W	340	345	350
Open Circuit Voltage (Voc)	۷	45.2	45.3	45.4
Short Circuit Current (Isc)	Α	9.51	9.55	9.60
Voltage at Pmax (Vmpp)	۷	37.4	37.5	37.6
Current at Pmax (Impp)	Α	9.09	9.20	9.31
Module Efficiency	%	19.6	19.9	20.2
Cell Type	-	Mono-Crystalline Silicon		
Maximum System Voltage	۷	1,500		
Temperature Coefficient of Pmax	%/°C	-0.34%		
Temperature Coefficient of Voc	%/°C	-0.27%		
Temperature Coefficient of Isc	%/°C	0.04%		

*All data at STC (Standard Test Conditions). Above data may be changed without prior notice.

Mechanical Characteristics

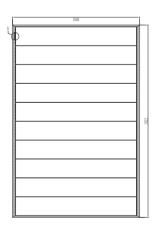
Dimensions	$1,622 \times 1,068 \times 35$ mm (L × W × H)				
Weight	19.8kg				
Solar Cells	340 cells, 6" PERC Mono-crystaline sillicon solar cells (in increment of 5)				
Output Cables	Length 1000mm, 1×4mm²	Connector	Stäubli : MC4-Evo2		
Junction Box	Rated current : 15A, IP67, TUV&UL				
Construction	Front Glass : White toughened safety glass, 3.2mm Encapsulation : EVA (Ethylene-Vinyl-Acetate)				
Frame	Anodized aluminum profile				

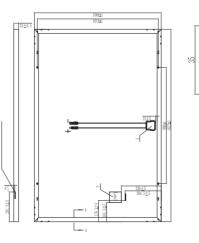
Installation Safety Guide

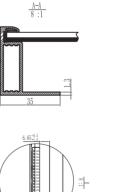
- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

$42.3 \pm 2^{\circ}C$
-40 ~ 85°C
DC 1,500 / 1,000 (IEC)
20A
Front 5,400 Pa Rear 2,400 Pa

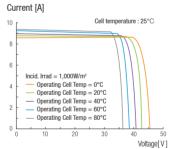
Module Diagram (unit : mm)







I-V Curves



Current [A]

