# HYUNDAI SOLAR MODULE



HiE-S385VG HiE-S390VG

HiE-S400VG



>

Shingled Technology



For Both Residential & Commercial Applications



More Power Generation In Low Light



M6 PERC Shingled

M6 PERC Shingled Technology provides ultra-high efficiency with better performance in low irradiation. Maximizes installation capacity in limited space.



## Reliable Warranty

Global brand with powerful financial strength provide reliable 25-year warranty. (Europe and Australia only)

#### Hyundai's Warranty Provisions



25

YEARS

- 25-Year Product Warranty (Europe and Australia only)
  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



HiE-S395VG

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



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.



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



Printed Date : 12/2020

### **Electrical Characteristics**

Electrical Characteristics		Mono-Crystalline Module (HiE-SVG)			
		385		395	400
Nominal Output (Pmpp)	W	385	390	395	400
Open Circuit Voltage (Voc)	V	46.2	46.3	46.3	46.4
Short Circuit Current (Isc)	А	10.82	10.87	10.92	10.97
Voltage at Pmax (Vmpp)	V	38.4	38.5	38.5	38.6
Current at Pmax (Impp)	А	10.03	10.13	10.26	10.36
Module Efficiency	%	19.6	19.9	20.2	20.4
Cell Type	-	PERC Mono-Crystalline Silicon Shingled			
Maximum System Voltage	V	1,500			
Temperature Coefficient of Pmax	%/°C	-0.34			
Temperature Coefficient of Voc	%/°C	-0.27			
Temperature Coefficient of Isc	%/°C	0.04			

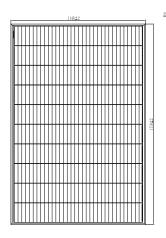
\*All data at STC (Standard Test Conditions). Above data may be changed without prior notice.

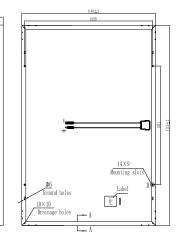
\*Tolerance of Pmax: 0~+5W \*Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

#### **Mechanical Characteristics**

Dimensions	$1,719 \times 1,140 \times 35$ mm (L × W × H)			
Weight	22kg			
Solar Cells	340 cells, PERC Mono-crystaline Shingled (166 $\times$ 166mm)			
Output Cables	Length 1,500mm, 1×4mm <sup>2</sup>	Connector	Stäubli : MC4-Evo2	
Junction Box	Rated current : 20A, IP67, TUV&UL			
Construction	Front Glass : White toughened safety glass, 3.2mm Encapsulation : EVA (Ethylene-Vinyl-Acetate)			
Frame	Anodized aluminum			

#### 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 Operating Cell Temperature	<b>42.3 ± 2°</b> C		
Operating Temperature	<b>-40 ~ 85°</b> C		
Maximum System Voltage	DC 1,500 / 1,000 (IEC) DC 1,000 (UL)		
Maximum Reverse Current	20A		
Maximum Surface Load Capacity	Front 5,400 Pa Rear 2,400 Pa		

#### **I-V Curves**

A-A

