# HYUNDAI SOLAR MODULE



HiE-S385VG HiE-S390VG HiE-S395VG

HiE-S400VG



Shingled Technology



For Both **Residential &** Commercial Applications



More Power Generation In Low Light



M6 PERC Shinaled

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 20-year warranty.



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.



# **Corrosion Resistant**

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



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

#### Hyundai's Warranty Provisions



• 20-Year Product Warranty

On materials and workmanship

25 YEARS

# • 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

#### **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





#### **Electrical Characteristics**

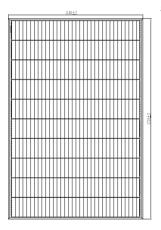
Electrical Characteristics			Mono-Crystalline M	odule (HiE-SVG)	
		385	390	395	400
Nominal Output (Pmpp)	W	385	390	395	400
Open Circuit Voltage (Voc)	V	46.2	46.3	46.3	46.4
Short Circuit Current (Isc)	А	10.82	10.87	10.92	10.97
Voltage at Pmax (Vmpp)	V	38.4	38.5	38.5	38.6
Current at Pmax (Impp)	А	10.03	10.13	10.26	10.36
Module Efficiency	%	19.6	19.9	20.2	20.4
Cell Type	-		PERC Mono-Crystal	line 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	

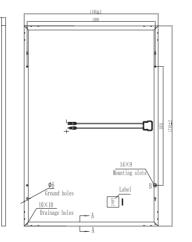
\*All data at STC (Standard Test Conditions). Above data may be changed without prior notice.

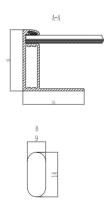
#### **Mechanical Characteristics**

Dimensions	1,719 × 1,140 × 35mm (L × W × H)			
Weight	22kg			
Solar Cells	340 cells, PERC Mono-crystaline Shingled (166 × 166mm)			
Output Cables	Length 1,000mm, 1×4mm <sup>2</sup> Connector MC4 Original			
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)





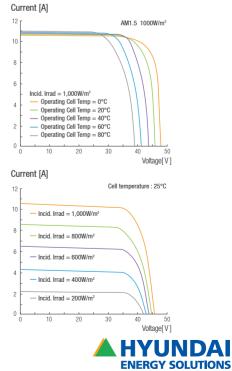


#### **Installation Safety Guide**

- 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	$42.3 \pm 2^{\circ}C$		
Operating Temperature	<b>-40</b> ~ 85°C		
Maximum System Voltage	DC 1,500 / 1,000 (IEC) DC 1,000 (UL)		
Maximum Reverse Current	20A		
Maximum	Front 5,400 Pa		
Surface Load Capacity	Rear 2,400 Pa		

### I-V Curves





Printed Date : 07/2020