Axpert VM IV Off-Grid Inverter









- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Built-in Wifi for mobile monitoring (App is available)
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Reserved communication port (RS485, CAN-BUS or RS232) for BMS
- · Battery independent design
- Battery equalization extends lifecycle
- User-friendly LCD operation
- Enhanced charging power
- Built-in anti-dust kit

User-programmable RGB lighting for different operation mode







Yellow











Purple

Three lighting effects



CyclingQuickly scrolling with a color of your choice in a continuous circular motion



Illuminates with twinkling lights in a color of your choice



ChasingRadiates your selected color upward from the bottom of the ring

Axpert VM IV Off-Grid Inverter Selection Guide

| Rated Power | 3600VA/3600W | | | | |
|---------------------------------------|---|--------------|--|--|--|
| | 0000 17 17 0000 11 | 5600VA/5600W | | | |
| INPUT | | | | | |
| Voltage | 230 VAC | | | | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances) | | | | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | | | | |
| OUTPUT | | | | | |
| AC Voltage Regulation (Batt. Mode) | 230 VAC ± 5% | | | | |
| Surge Power | 7200VA | 11200VA | | | |
| Efficiency (Peak) | 90% ~ 93% | | | | |
| Transfer Time | 15 ms (For Personal Computers); 20 ms (For Home Appliances) | | | | |
| Waveform | Pure sine wave | | | | |
| BATTERY | | | | | |
| Battery Voltage | 24 VDC | 48 VDC | | | |
| Floating Charge Voltage | 27 VDC | 54 VDC | | | |
| Overcharge Protection | 33 VDC | 63 VDC | | | |
| SOLAR CHARGER & AC CHARGER | | | | | |
| Solar Charger Type | MPPT | MPPT | | | |
| Maximum PV Array Power | 4000 W | 6000 W | | | |
| MPPT Range @ Operating Voltage | 120 ~ 450 VDC | | | | |
| Maximum PV Array Open Circuit Voltage | 500 VDC | | | | |
| Maxmum Solar Charge Current | 120 A | 120 A | | | |
| Maximum AC Charge Current | 100 A | 100 A | | | |
| Maximum Charge Current | 120 A | 120 A | | | |
| PHYSICAL | | | | | |
| Dimension, D x W x H (mm) | 115 x 300 x 400 | | | | |
| Net Weight (kgs) | 9.0 10.0 | | | | |
| Communication Interface | USB/RS232/RS485/WiFi/Dry-contact | | | | |
| OPERATING ENVIRONMENT | | | | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | | | | |
| Operating Temperature | -10°C to 50°C | | | | |
| Storage Temperature | -15°C to 60°C | | | | |

Product specifications are subject to change without further notice.



HYUNDAI SOLAR MODULE



PERC Shingled

HiE-S390VG HiE-S395VG HiE-S400VG HiE-S405VG HiE-S410VG





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.



Anti-LID / PID

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.



Reliable Warranty

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



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.

Hyundai's Warranty Provisions



25-Year Product WarrantyOn materials and workmanship Australia and Europe Only



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













www.hyundai-es.co.kr Printed Date: 08/2021

| Electrical Characteristics | | Mono-Crystalline Module(HiE-SVG) | | | | |
|-----------------------------------|------|--|-------|-------|-------|-------|
| | | 390 | 395 | 400 | 405 | 410 |
| Nominal Output(Pmpp) | W | 390 | 395 | 400 | 405 | 410 |
| Open Circuit Voltage(Voc) | V | 46.3 | 46.3 | 46.4 | 46.5 | 46.6 |
| Short Circuit Current(Isc) | Α | 10.87 | 10.92 | 10.97 | 11.02 | 11.07 |
| Voltage at Pmax(Vmpp) | V | 38.5 | 38.5 | 38.6 | 38.7 | 38.8 |
| Currnt at Pmax(Impp) | А | 10.13 | 10.26 | 10.36 | 10.47 | 10.57 |
| Module Efficiency | % | 19.9 | 20.2 | 20.4 | 20.7 | 20.9 |
| Cell Type | - | PERC Mono-Crystalline Silicon Shingled | | | | |
| Maximum System Voltage | V | 1,500 | | | | |
| Temperature Coefficiency of Pmax | %/°C | -0.34 | | | | |
| Temperature Coefficiency of Voc | %/°C | -0.27 | | | | |
| Temperature Coefficiency of Isc | %/°C | 0.04 | | | | |

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

*Tolerance of Pmax:0~+5W.

Mechanical Characteristics

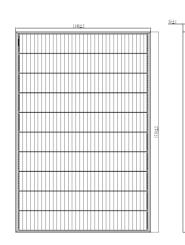
| Dimensions | 1,719 × 1,140 × 35mm (L × W × H) | | | | |
|---------------|---|-----------|-------------------|--|--|
| Weight | 22kg | | | | |
| Solar Cells | 340 Cells, PERC Mono-crystalines Shingled (166 $	imes$ 166mm) | | | | |
| Output Cables | Length1,500mm, 1×4mm² | Connector | Stäubli: MC4-Evo2 | | |
| 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 | | | | |

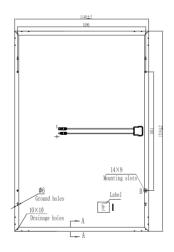
Installation Safety Guide

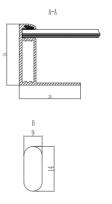
- Only qualified personnel should install or perform maintainence.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

| Nominal Operating Cell Temperature | 42,3°C (±2°C) | | |
|---------------------------------------|---------------------------------|--|--|
| Operating Temperature | -40 ~ 85° C | | |
| Maximum System Voltage | DC 1.500 / 1.000 (IEC) | | |
| Maximum Reverse Current | 20A | | |
| Maximum Surface Load Capacity | Front 5,400 Pa Rear 2,400 Pa | | |

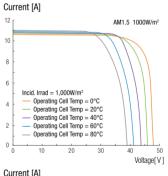
Module Diagram (unit:mm)

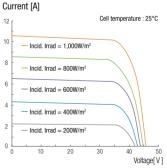






I-V Curves







Manufactured in China

^{*}Performance deviation of Voc[V], Isc [A], Vm [V], and Im[A]:±3%.