

THE KNOWN
SOLAR BRAND
AUSTRALIA TRUSTS



HiF-S330FG Mono-Crystalline

330W 120 CELLS

25
YEAR PRODUCT
WARRANTY

Why choose Hyundai Energy Solutions?

WHAT IS THE VALUE OF A BRAND?

Hyundai is one of the biggest consumer brand names in the world.

As a long established international brand, Hyundai Energy Solutions solar panels have been installed within Australia for over 10 years. In 2019 we increased our product warranty to 25 years.

By purchasing panels from a trusted and well known consumer brand, you're making a safer investment for the long term.

No. 94 **Forbes**
2019 WORLD'S MOST
VALUABLE BRANDS



HALF CUT DESIGN

Avoids the hot spot effect and reduces power degradation.



LATEST TECHNOLOGY

High module conversion efficiency through superior manufacturing technology.



TOP PERFORMANCE

High performance under low light conditions (cloudy days, mornings & evenings).



GREAT VALUE

Our vertically integrated business model allows for competitive pricing.



PID FREE

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



HIGHEST QUALITY

Manufactured according to International Quality & Environmental Management Systems (ISO9001/ISO14001).



25 YEAR PRODUCT WARRANTY

Market leading product warranty for our heavy duty 330W FG Series solar panels.



SOLAR PANEL VALIDATION INITIATIVE

All of Hyundai's panels meet the standards for this Australian Government Initiative.

ELECTRICAL CHARACTERISTICS*

MODEL		HiF-S330FG
Nominal Output (P _{mpp})	W	330
Open Circuit Voltage (V _{oc})	V	41.40
Short Circuit Current (I _{sc})	A	10.20
Voltage at P _{max} (V _{mpp})	V	33.70
Current at P _{max} (I _{mp})	A	9.80
Module Efficiency	%	19.56
Cell Type	-	Mono-Crystalline Silicon
Maximum System Voltage	V	1000V/1500V DC(IEC)
Maximum Reverse Current	A	20

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

TEMPERATURE CHARACTERISTICS

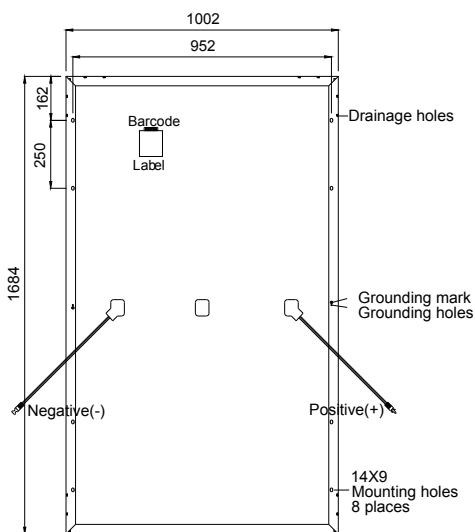
Nominal Operating Cell Temperature	42°C ± 3°C
Operating Temperature	-40 ~ 85°C
Temperature Coefficient of P _{max}	-0.365%/°C
Temperature Coefficient of V _{oc}	-0.270%/°C
Temperature Coefficient of I _{sc}	+0.038%/°C

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.

MODULE DIAGRAM (unit:mm)

Mono-Crystalline FG Type - Back View



(Back side) Note:mm

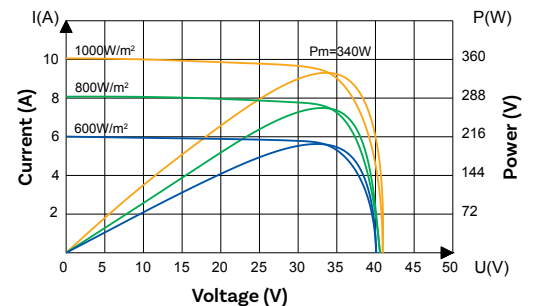
- IEC 61215-2 (ed.1) and IEC 61730-2 (ed.2) by TUV
- Advanced Mechanical Test: Positive 3600Pa (safety factor 1.5) / Negative 2400Pa (safety factor 1.5)
- 25 Year Performance Warranty - linear from second year with 0.7% annual degradation such that 80.2% is guaranteed up to 25 years. 25 Year Product Warranty on materials and workmanship.

MECHANICAL CHARACTERISTICS

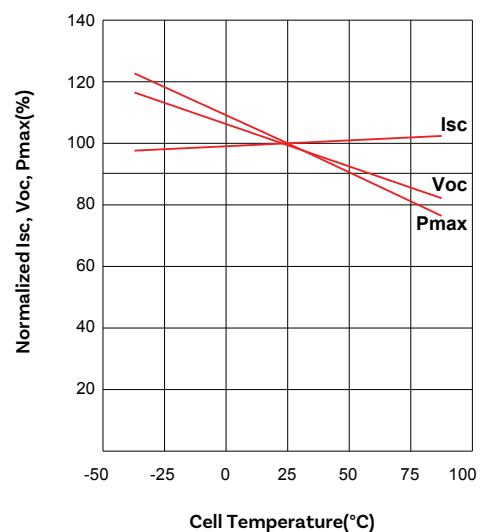
Dimensions	1002mm (W) × 1684mm (L) × 35mm (H) Weight: 18.8kg
Solar Cells	120 (6x20) Monocrystalline solar 5BB PERC cells
Output Cables	Original MC 4 connector equipped, IEC Certified, length 1000mm/4mm ²
Junction Box	IP67/IP68 rated
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade
Construction Front	Transparent toughened safety glass, 3.2mm
Encapsulant	EVA Back Sheet: Composite film
Frame	Anodized aluminum profile
Application Class	Class A at IEC 61730
Maximum Surface Load Capacity	Snow 5400Pa/Wind 2400Pa

I-V CURVES

Current-Voltage & Power-Voltage Curve (340W)



Temperature Dependence of I_{sc}, V_{oc}, P_{max}(°C)



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