



• Qualified, IEC 61215
• Safety tested, IEC 61730
• Periodic inspection



Hyundai Solar Module

| SF-Series |

Multi-crystalline Type

HiS-M194SF | HiS-M197SF | HiS-M200SF
HiS-M203SF | HiS-M206SF | HiS-M209SF
HiS-M212SF

Mono-crystalline Type

HiS-S200SF | HiS-S203SF | HiS-S206SF
HiS-S209SF | HiS-S212SF | HiS-S215SF
HiS-S218SF

Mechanical Characteristics

Dimensions	983 mm [38.7"] (W) × 1476 mm [58.11"] (L) × 35 mm [1.38"] (H)
Weight	Approx. 17.0 kg [37.5 lbs]
Solar cells	54 cells in series (6×9 matrix)
Output cables	4 mm ² (12AWG) cables with polarized weatherproof connectors, IEC certified (UL listed), Length 1.0 m [39.4"]
Junction box	IP65, weatherproof, IEC certified (UL listed)
Bypass diodes	3 bypass diodes to prevent power decrease by partial shade
Construction	Front : High transmission low-iron tempered glass, 3.2 mm [0.126"] Encapsulant : EVA Back Sheet : Weatherproof film
Frame	Clear anodized aluminum alloy type 6063

High Quality

- IEC 61215(Ed.2) and IEC 61730 by TÜV Rheinland
- UL listed (UL1703), Class C Fire Rating
- Output power tolerance +3/-0%
- ISO 9001:2000 and ISO 14001:2004 Certified
- Advanced Mechanical Test (5,400 Pa) Passed (IEC) /Mechanical Load Test (40 lbs/ft²) Passed (UL)

Limited Warranty

- 5 years for product defect
- 10 years for 90% of warranted min. power
- 25 years for 80% of warranted min. power

Fast and Inexpensive Mounting

- Delivered ready for connection
- Pre-confectioned cables
- IEC (UL) passed and weatherproof connectors
- Integrated bypass diodes



※ Important Notice on Warranty

The warranties apply only to the PV modules with Hyundai Heavy Industries Co., Ltd.'s logo (shown left) and product serial number on it.

Electrical Characteristics

Multi-crystalline Type

		HiS-M□□□SF						
		194	197	200	203	206	209	212
Nominal output (Pmpp)	W	194	197	200	203	206	209	212
Voltage at Pmax (Vmpp)	V	26.2	26.4	26.4	26.6	26.8	26.9	27.0
Current at Pmax (Impp)	A	7.5	7.5	7.6	7.7	7.7	7.8	7.9
Open circuit voltage (Voc)	V	32.9	33.0	33.1	33.3	33.4	33.5	33.6
Short circuit current (Isc)	A	8.1	8.1	8.2	8.2	8.2	8.3	8.3
Output tolerance	%	+3/-0						
No. of cells & connections	pcs	54 in series						
Cell type	-	6" Multi-crystalline silicon						
Module efficiency	%	13.4	13.6	13.8	14.0	14.2	14.4	14.6
Temperature coefficient of Pmpp	%/K	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43	-0.43
Temperature coefficient of Voc	%/K	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32
Temperature coefficient of Isc	%/K	0.056	0.056	0.056	0.056	0.056	0.056	0.056

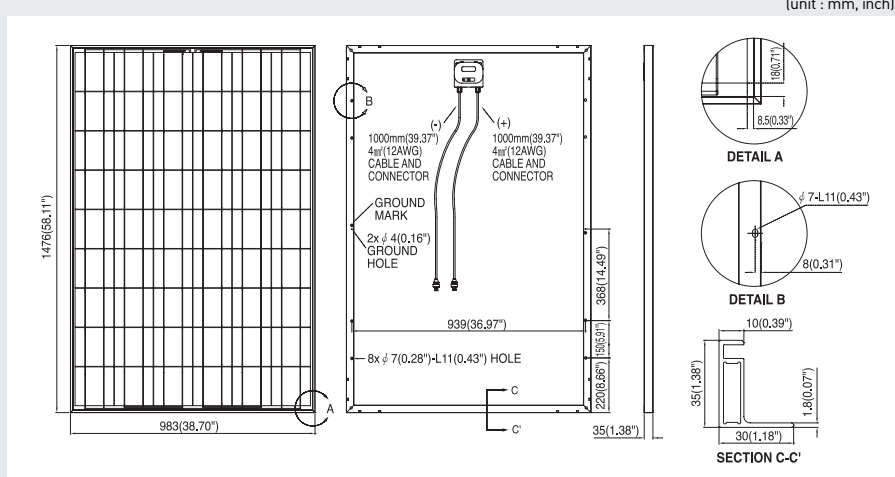
※ All data at STC (Standard Test Conditions). Above data may be changed without prior notice.

Mono-crystalline Type

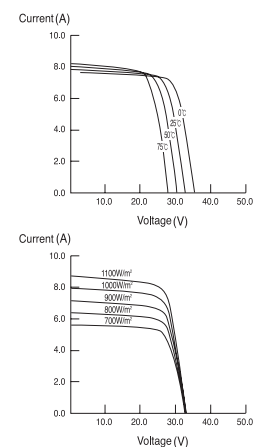
		HiS-S□□□SF						
		200	203	206	209	212	215	218
Nominal output (Pmpp)	W	200	203	206	209	212	215	218
Voltage at Pmax (Vmpp)	V	26.5	26.6	26.8	26.9	27.0	27.1	27.2
Current at Pmax (Impp)	A	7.6	7.7	7.7	7.8	7.9	8.0	8.1
Open circuit voltage (Voc)	V	33.1	33.2	33.4	33.5	33.6	33.7	33.8
Short circuit current (Isc)	A	8.2	8.2	8.2	8.2	8.3	8.3	8.4
Output tolerance	%	+3/-0						
No. of cells & connections	pcs	54 in series						
Cell type	-	6" Mono-crystalline silicon						
Module efficiency	%	13.8	14.0	14.2	14.4	14.6	14.8	15.0
Temperature coefficient of Pmpp	%/K	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44
Temperature coefficient of Voc	%/K	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34
Temperature coefficient of Isc	%/K	0.052	0.052	0.052	0.052	0.052	0.052	0.052

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

Module Diagram



I-V Curves



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	46 °C ± 2
Operating Temperature	-40 - 85 °C
Maximum System Voltage	DC 1,000 V (IEC), DC 600 V (UL)
Maximum Reverse Current	15 A