Sun Energy europe

Hyundai HiS-M 182 SF – 206 SF

Multicrystalline Photovoltaic Module

Produktmerkmale

- High-power module using 6" multicrystalline solar cells
- 54 solar cells connected in series
- Up to 14.2 % module efficiency
- Use of high transmission low-iron tempered glass, EVA plastic, weather-protection film and anodised aluminium frame for prolonged use
- 3 bypass diodes to prevent power decrease by partial shade.
- Manufactured in ISO 9001 and 14001 certified facility
- 10 year performance guarantee for a 90 % power output
- 25 year performance guarantee for a 80 % power output

We develop energy and markets.

ELECTRICAL CHARACTERISTICS

Parameters

HiS-M		182SF	184SF	188SF	191SF	194SF	197SF	200SF	203SF	206SF
Nominal power	P_N	182 W_p	184 W_p	188 W_p	191 W_p	194 W_p	197 W_p	200 W_p	203 W_p	206 W_p
Nominal voltage	U_N	25.9 V	26.0 V	26.2 V	26.3 V	26.4 V	26.6 V	26.7 V	26.9 V	27.1 V
Nominal current	I_N	7.06 A	7.11 A	7.20 A	7.27 A	7.34 A	7.42 A	7.47 A	7.54 A	7.61 A
Open circuit voltage	U_{OC}	32.7 V	32.8 V	33.0 V	33.0 V	33.1 V	33.3 V	33.6 V	33.7 V	33.8 V
Short circuit current	I_{SC}	7.80 A	7.81 A	7.87 A	7.96 A	8.04 A	8.12 A	8.19 A	8.27 A	8.34 A
Module efficiency	η	12.6 %	12.7 %	13.0 %	13.2 %	13.4 %	13.6 %	13.8 %	14.0 %	14.2 %

Electrical data at standard test conditions (STC: 1000 W/qm, 25 °C, AM 1,5)

SPECIFICATIONS

Parameters

No. of cells	54 in series
Maximal system voltage	1,000 V
Performance Tolerance	± 3 %
Cable connection	4 mm^2 cables, TYCO-connectors
Bypass diodes	3 pcs.

Temperature coefficients

Temperature coefficient of P_N	−0.43 %/K
Temperature coefficient of U_{OC}	−0.32 %/K
Temperature coefficient of I_{SC}	+0.056 %/K

Mechanical parameters

Dimensions	983 x 1,476 x 35 mm
Weight	17 kg
Mechanical Ratings	Max. 2,400 Pa

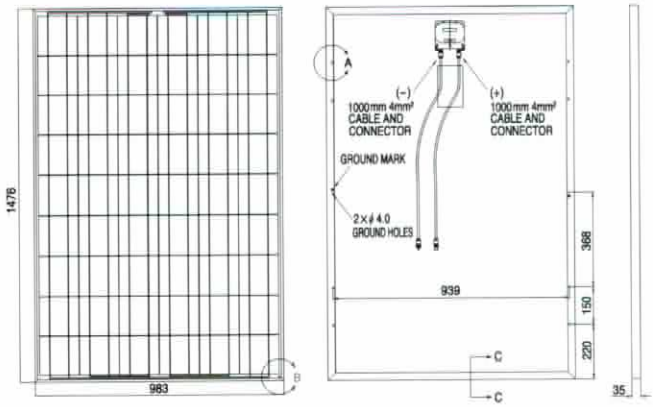
Absolute Maximum Ratings

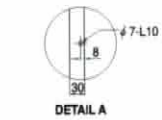
Operating temperature	−20 to +40 °C
Ambient temperature	−20 to +40 °C

Qualifications

IEC 61215, IEC 61730
Made in Korea

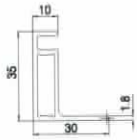
OUTLINE DIMENSIONS





DETAIL A

DETAIL B



SECTION C-C

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