

현대 태양광 모듈

MG-Series

Multi-crystalline Type (다결정모듈)

HiS-M230MG | HiS-M233MG | HiS-M235MG | HiS-M238MG | HiS-M240MG | HiS-M245MG | HiS-M250MG

Mono-crystalline Type (단결정모듈)

HiS-S245MG | HiS-S248MG | HiS-S250MG | HiS-S255MG | HiS-S260MG | HiS-S265MG

Mechanical Characteristics

| | |
|---------------|--|
| Dimensions | 983mm (38.7")(W) × 1,645mm (64.76")(L) × 35mm (1.38")(H) |
| Weight | Approx. 18.5kg (40.8lbs) |
| Solar cells | 60 cells in series (6 × 10 matrix) |
| Output cables | 4mm ² (12AWG) cables with polarized weatherproof connectors, IEC certified (UL listed), Length 1.0m (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, 3.2mm (0.126") Encapsulant : EVA Back Sheet : Weatherproof film |
| Frame | Clear anodized aluminum alloy type 6063 (silver or black color) |

High Quality

- IEC 61215 (Ed.2) and IEC 61730 by TÜV Rheinland
- UL listed (UL 1703), Class C Fire Rating
- Output power tolerance +3/-0%
- ISO 9001:2000 and ISO 14001:2004 Certified
- Advanced Mechanical Test (5,400Pa) Passed (IEC)
/ Mechanical Load Test (40lbs/ft²) Passed (UL)
- Ammonia Corrosion Resistance Test Passed
- IEC 61701 (Salt Mist Corrosion Test) Passed

Fast and Inexpensive Mounting

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

Limited Warranty

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

※ 보증관련 유의사항

태양광모듈 보증은 현대중공업 로고와 시리얼 넘버가 부착된 정품 제품에만 유효합니다.



Electrical Characteristics

| Multi-crystalline Type (다결정모듈) |

| | | HIS-M□□□MG | | | | | | |
|---------------------------------|-----|-----------------------------|-------|-------|-------|-------|-------|-------|
| | | 230 | 233 | 235 | 238 | 240 | 245 | 250 |
| Nominal output (Pmpp) | W | 230 | 233 | 235 | 238 | 240 | 245 | 250 |
| Voltage at Pmax (Vmpp) | V | 30.1 | 30.3 | 30.3 | 30.4 | 30.5 | 30.7 | 30.9 |
| Current at Pmax (Impp) | A | 7.7 | 7.7 | 7.8 | 7.8 | 7.9 | 8.0 | 8.1 |
| Open circuit voltage (Voc) | V | 37.1 | 37.3 | 37.4 | 37.4 | 37.7 | 38.0 | 38.2 |
| Short circuit current (Isc) | A | 8.2 | 8.2 | 8.3 | 8.3 | 8.3 | 8.4 | 8.6 |
| Output tolerance | % | +3/-0 | | | | | | |
| No. of cells & connections | pcs | 60 in series | | | | | | |
| Cell type | - | 6" Poly-crystalline silicon | | | | | | |
| Module efficiency | % | 14.2 | 14.4 | 14.5 | 14.7 | 14.8 | 15.2 | 15.5 |
| 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 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 |

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

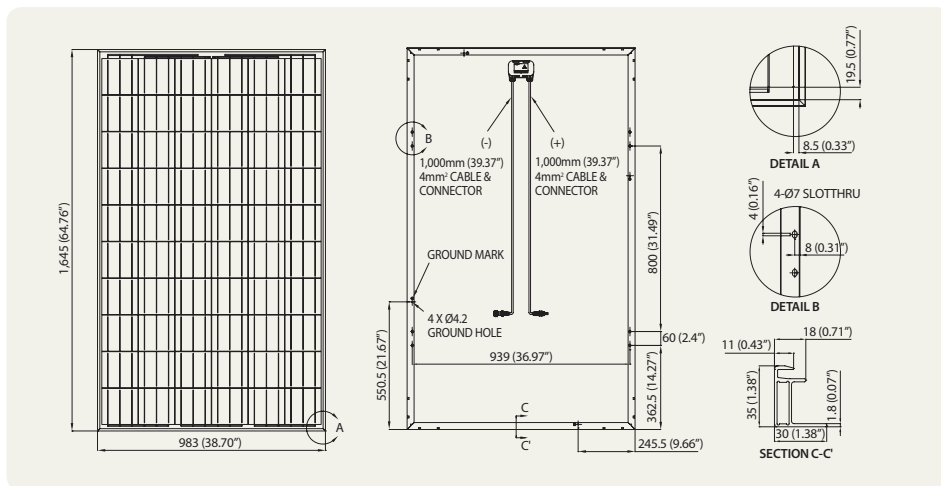
| Mono-crystalline Type (단결정모듈) |

| | | HIS-S□□□MG | | | | | |
|---------------------------------|-----|-----------------------------|-------|-------|-------|-------|-------|
| | | 245 | 248 | 250 | 255 | 260 | 265 |
| Nominal output (Pmpp) | W | 245 | 248 | 250 | 255 | 260 | 265 |
| Voltage at Pmax (Vmpp) | V | 30.3 | 30.3 | 30.5 | 30.8 | 31.0 | 31.2 |
| Current at Pmax (Impp) | A | 8.1 | 8.2 | 8.2 | 8.3 | 8.4 | 8.5 |
| Open circuit voltage (Voc) | V | 37.4 | 37.5 | 37.5 | 37.7 | 37.8 | 37.9 |
| Short circuit current (Isc) | A | 8.6 | 8.7 | 8.7 | 8.8 | 8.9 | 9.0 |
| Output tolerance | % | +3/-0 | | | | | |
| No. of cells & connections | pcs | 60 in series | | | | | |
| Cell type | - | 6" Mono-crystalline silicon | | | | | |
| Module efficiency | % | 15.2 | 15.3 | 15.5 | 15.8 | 16.1 | 16.4 |
| Temperature coefficient of Pmpp | %/K | -0.45 | -0.45 | -0.45 | -0.45 | -0.45 | -0.45 |
| Temperature coefficient of Voc | %/K | -0.33 | -0.33 | -0.33 | -0.33 | -0.33 | -0.33 |
| Temperature coefficient of Isc | %/K | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 |

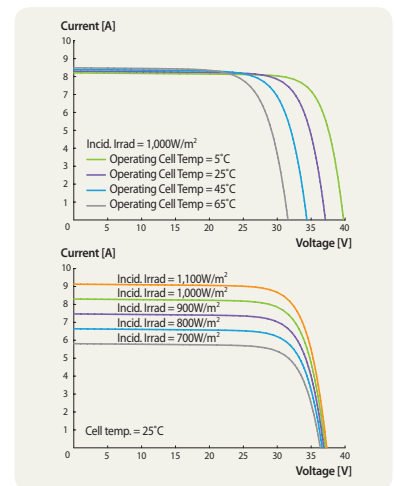
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| Module Diagram |

(unit : mm, inch)



| I-V Curves |

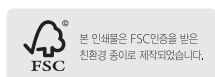


| 설치시 유의사항 |

- 전문 기술자만이 설치 및 유지·보수 작업을 할 수 있으며 고압 직류전압에 유의하십시오.
- 모듈 뒷면이 상하거나 굽히지 않도록 유의하십시오.
- 모듈은 젖은 상태로 설치하지 마십시오.

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

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