

Mono Crystalline


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Solar Crystalline Silicon Modules

MODELS : MCA SERIES



Novergy offers high quality crystalline silicon modules which are made using high quality raw materials and the best quality of cells. A stringent quality control procedure is followed to ensure that the module reaching you will always perform as per the specifications for its warranted lifetime.

SPECIAL FEATURES

- **Highest efficiency modules upto 16.5%**
- Suitable for grid-connect systems
- Suitable for 1000VDC systems
- IEC 61215 certified panels
- 3 Bypass diodes to reduce power drop caused by shade
- Narrow power tolerance
- Low iron tempered front glass
- High quality Anodized Aluminium frame to provide protection to laminate and provide structural strength
- IP65 junction box at back of module
- MC connectors alongwith cable

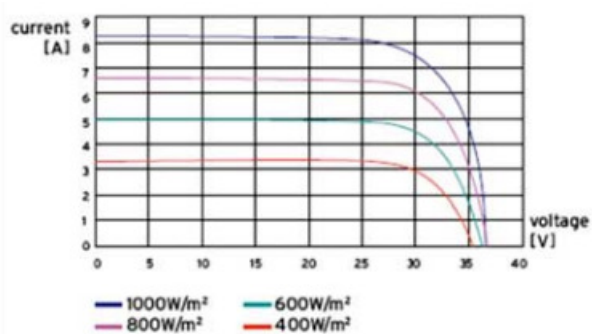
TECHNICAL SPECIFICATION

| Model | MCA-180 | MCA-190 | MCA-205 | MCA-210 |
|--------------------------------|--------------------------|-----------------|-----------------|-----------------|
| Type of cells | Mono-crystalline Silicon | | | |
| Wattage (Wp) | 180 | 190 | 205 | 210 |
| Voltage at max. power (Vmax) | 36.0 | 36.4 | 37.56 | 37.86 |
| Short Circuit Voltage (Voc) | 44.8 | 44.8 | 45.74 | 45.90 |
| Current at maximum power (Imp) | 5.0 | 5.2 | 5.46 | 5.55 |
| Short circuit current (Isc) | 5.48 | 5.62 | 5.69 | 5.73 |
| Number of cells per module | 72 (5 inch) | 72 (5 inch) | 72 (5 inch) | 72 (5 inch) |
| Frame | Anodized Aluminium | | | |
| Front Glass | Tempered 3.2mm | | | |
| Junction box | IP65 | | | |
| Connector | MC | | | |
| Dimensions (mm) | 1580 x 808 x 40 | 1580 x 808 x 40 | 1580 x 808 x 40 | 1580 x 808 x 40 |
| Weight (kg) | | | | |
| Operating temperature (Deg. C) | -40 to +85 | | | |
| Wind speed (km/h) | 200 | | | |
| Maximum system voltage | 1000 VDC | | | |
| | | | | |

TECHNICAL SPECIFICATIONS

| Model | MCA-220 | MCA-235 | MCA-240 | MCA-250 |
|--------------------------------|---|-----------------|-----------------|-----------------|
| Type of cells | Mono-crystalline Silicon | | | |
| Wattage (Wp) | 220 | 235 | 240 | 250 |
| Voltage at max. power (Vmax) | 45.2 | 30.36 | 30.56 | 30.96 |
| Short Circuit Voltage (Voc) | 59.2 | 37.19 | 37.49 | 37.92 |
| Current at maximum power (Imp) | 4.87 | 7.74 | 7.85 | 8.07 |
| Short circuit current (Isc) | 5.43 | 8.49 | 8.54 | 8.62 |
| Number of cells per module | 96 (5inch) | 60 (6 inch) | 60 (6 inch) | 60 (6 inch) |
| Frame | Anodized Aluminium | | | |
| Front Glass | Tempered 3.2mm | | | |
| Junction box | IP65 | | | |
| Connector | MC | | | |
| Dimensions (mm) | 1580 x 1060 x 50 | 1650 x 991 x 40 | 1650 x 991 x 40 | 1650 x 991 x 40 |
| Weight (kg) | 19.5 | 19.5 | 19.5 | 19.5 |
| Operating temperature (Deg. C) | -40 to +85 | | | |
| Wind speed (km/h) | 200 | | | |
| Maximum system voltage | 1000 VDC | | | |
| | All electrical parameters apply to Standard Test Conditions (STC) (Irradiance : 1000W/m ² ; Spectrum AM:1.5 ; Cell temperature : +25oC) Rated power may vary by +/- 3% and electrical parameters may vary +/- 5% | | | |

ELECTRICAL PARAMETERS

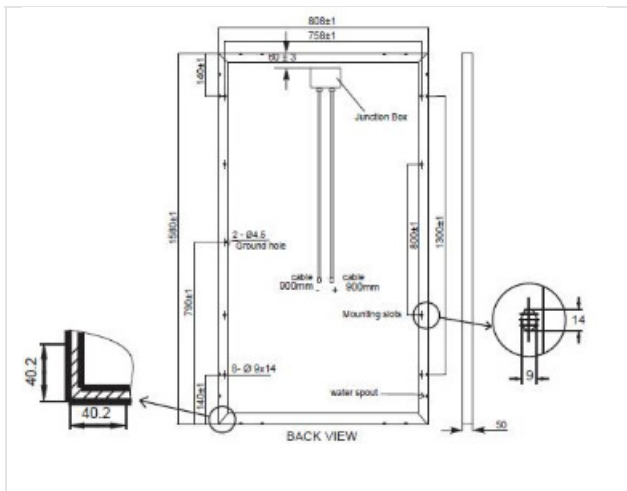


Current-Voltage Characteristics

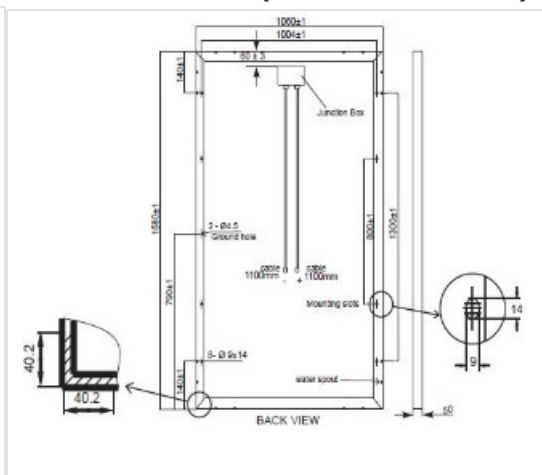
Temperature coefficients (Tk)

| | |
|----------------|-------------|
| Power (Pm) | -0.37% / oC |
| Voltage (Voc) | -0.30% / oC |
| Current (Isc) | +0.04% / oC |

PHYSICAL LAYOUT (160 WP TO 215 WP)



PHYSICAL LAYOUT (220 WP TO 250 WP)



WARRANTY

25 years limited warranty for power output

Long term output warranty shall warrant if PV Module(s) exhibits power output of less than 90% of the original minimum rated power specified at the time of sale within 10 years and less than 80% within 25 years after the date of sale to the Customer.

QUALIFICATIONS

These modules are manufactured in a facility that has a quality management system that is in compliance with the International QualitySystem Standard ISO 9001.

Additional Information

| APPLICATION | CERTIFICATION | WARRANTY | REGIONS | ACCESSORIES |
|---|---|--|--|--|
| <ul style="list-style-type: none"> Off-grid power On-Grid Power | <ul style="list-style-type: none"> TUV, Germany IEC 61215 IEC 61730 Clean Energy Council, Australia CE, VDE, Safety Class II | <ul style="list-style-type: none"> 25 Years | <ul style="list-style-type: none"> 220v, 230v, 240v (Europe, Africa, Asia, Australia) | <ul style="list-style-type: none"> Stand Pole Battery |