

Phono[®] Solar

Dual Glass Module

Mono/295-310W



Fire Application Class A

Fireproof dual glass module structure allows more safety



PID Resistant



Higher Reliability

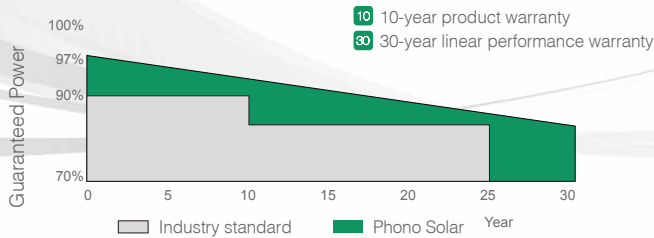
Enhanced reliability and better anti-corrosiveness in harsh environments

Bloomberg
NEW ENERGY FINANCE

Tier1



TOP
PERFORMER



EN EN-20180809

SINOMACH | SUMEC
SUMEC GROUP CORPORATION

ELECTRICAL TYPICAL VALUES

| Model | PS295MGF-20/U PS295MGFH-20/U | PS300MGF-20/U PS300MGFH-20/U | PS305MGF-20/U PS305MGFH-20/U | PS310MGF-20/U PS310MGFH-20/U |
|---|---|---------------------------------|---------------------------------|---------------------------------|
| Type | Monocrystalline 6 inch x 6 inch square, 6 × 10 pieces in series | | | |
| Rated Power (Pmpp) | 295W | 300W | 305W | 310W |
| Tolerance | 0~+5w | | | |
| Rated Current (Impp) | 9.21 | 9.32 | 9.43 | 9.54 |
| Rated Voltage (Vmpp) | 32.04 | 32.19 | 32.35 | 32.50 |
| Short Circuit Current (Isc) | 9.77 | 9.82 | 9.87 | 9.92 |
| Open Circuit Voltage (Voc) | 39.80 | 39.90 | 40.00 | 40.10 |
| Module Efficiency (%) | 17.76 | 18.06 | 18.37 | 18.67 |
| NOCT (Nominal Operation Cell Temperature) | 45±2°C | | | |
| Voltage Temperature Coefficient | -0.295%/°C | | | |
| Current Temperature Coefficient | +0.046%/°C | | | |
| Power Temperature Coefficient | -0.396%/°C | | | |

MECHANICAL CHARACTERISTICS

| | |
|----------------------|--|
| Dimension (L× W × H) | Length: 1664mm (65.51 inch) Width: 998mm (39.29 inch) Height: 20mm (0.79 inch) |
| Weight | 20kg (44.09 lb) |
| Glass | 2.0mm/2.0mm heat-strengthened glass(front/back) |
| Frame | Anodized aluminium alloy |
| Cable | 4mm ² (IEC) , Length:1150mm or Customized length |
| Junction Box | IP 68 rated |

ABSOLUTE MAXIMUM RATING

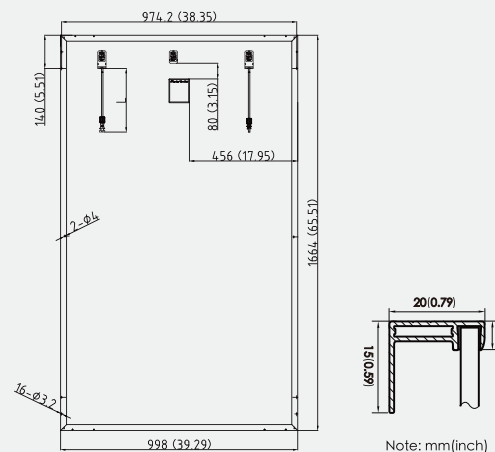
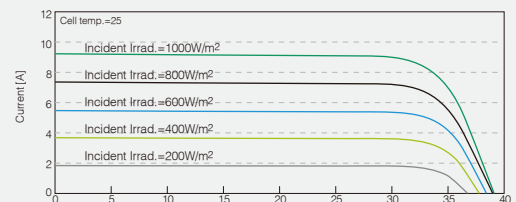
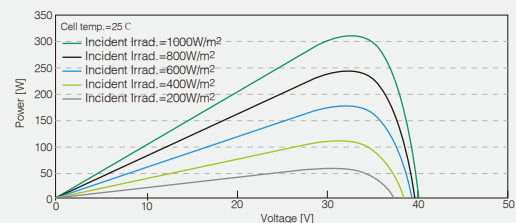
| Parameter | Values |
|-----------------------------------|----------------------|
| Operating Temperature | From -40 to +85°C |
| Hail Diameter @ 80km/h | Up to 25mm |
| Surface Maximum Load Capacity | Up to 2400Pa |
| Maximum Series Fuse Rating | 20A |
| IEC Application Class (IEC61730) | A |
| Fire Rating (IEC61730) | A |
| Module Fire Performance (UL 1703) | Type1 |
| Maximum System Voltage | DC 1000V/1500V (IEC) |

PACKING CONFIGURATION

| | | |
|------------------|--------|--------|
| Container | 20' GP | 40' HQ |
| Pieces/Container | 162 | 702 |

1. In compliance with our warranty terms and conditions.
 2. Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m
- Air mass 1.5 Spectrum, cell temperature of 25°C.

ELECTRICAL CHARACTERISTICS



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Note: This datasheet is not legally binding. Phono Solar Technology Co., Ltd. reserves the right to adjust specifications without notice. Further information please refer to our [Website:www.phonosolar.com](http://www.phonosolar.com), [E-mail:info@phonosolar.com](mailto:info@phonosolar.com)