

D6M_E3A

275W - 310W

Mono-Crystalline Photovoltaic Module



Positive power tolerance
0~+4.99 watt



Withstand strong snow load 5400 Pa / wind load 2400 Pa



Excellent low light performance
3.5% relative eff. reduction at low-irradiance (200W/m²)



100% EL inline inspection
Better module reliability



Prolonged aging test
2000 hours damp heat test; 400 thermal cycles



Ammonia resistance
According to IEC 62716 Ed. 1



www.tuv.com
ID 0000039214



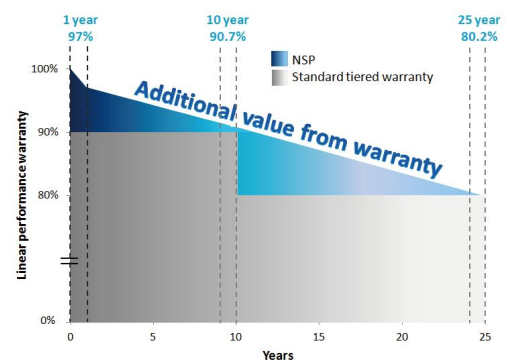
Certificate Number MCS PV0203 Technology



Reliability & Certification

Product guarantee: 10-year
Linear Performance Warranty
- 1-year: 97% power output
then power degradation 0.7% per year till 25th year
- 25-year: 80.2% power output
- 10-year: 90.7% power output
IEC 61215 / IEC61730, CE, MCS, UL1703, CEC

* Please refer to NSP product warranty for details



For more information, please visit us at www.nsp.com



NEO SOLAR POWER

Electrical Data

| MODEL | D6M 275 E3A | D6M 280 E3A | D6M 285 E3A | D6M 290 E3A | D6M 295 E3A | D6M 300 E3A | D6M 305 E3A | D6M 310 E3A |
|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Maximum Rating Power (Pmax) | 275 W | 280 W | 285 W | 290 W | 295 W | 300 W | 305 W | 310 W |
| Module Efficiency | 16.9% | 17.2% | 17.5% | 17.8% | 18.1% | 18.4% | 18.7% | 19.1% |
| Open Circuit Voltage (Voc) | 38.99 V | 39.04 V | 39.12 V | 39.18 V | 39.27 V | 39.39 V | 39.49 V | 39.75 V |
| Maximum Power Voltage (Vmpp) | 31.27 V | 31.33 V | 31.50 V | 31.61 V | 31.86 V | 32.09 V | 32.35 V | 32.57 V |
| Short Circuit Current (Isc) | 9.37 A | 9.53 A | 9.62 A | 9.68 A | 9.73 A | 9.78 A | 9.86 A | 9.91 A |
| Maximum Power Current (Imp) | 8.80 A | 8.95 A | 9.07 A | 9.18 A | 9.26 A | 9.35 A | 9.43 A | 9.52 A |

*Electrical data under Standard Test Conditions (STC): Cell Temperature of 25 °C, Irradiance 1000 W/m², AM 1.5

*Values w/o tolerance are typical numbers

*Specifications subject to change

Mechanical Data

| Item | Specification |
|-------------------------|--|
| Dimension | 1640 mm (L) ¹ x 992 mm (W) ¹ x 35 mm (D) ² / 64.5" (L) ¹ x 39.1" (W) ¹ x 1.38" (D) ² |
| Weight | 18 kg / 39.7 lbs |
| Solar Cell | 60 monocrystalline 6" silicon cells |
| Front Glass | Anti-reflective tempered solar glass, 3.2mm thickness |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate) |
| Back Cover | Composite film, white |
| Junction Box | IP 67 rated |
| Frame | Anodized aluminum frame, original or black |
| Packaging Configuration | 30 pcs Per Pallet, 840 pcs per 40' HQ container |

¹ : With assembly tolerance of ± 2 mm [± 0.08"]

² : With assembly tolerance of ± 0.8 mm [± 0.03"]

Operating Conditions

| Item | Specification |
|------------------------|--------------------------------------|
| Mechanical Load | 5400 Pa (Certified by TUV Rheinland) |
| Maximum System Voltage | DC 1000 V |
| Series Fuse Rating | 15 A |
| Operating Temperature | -40 to 85 °C |

Temperature Characteristics

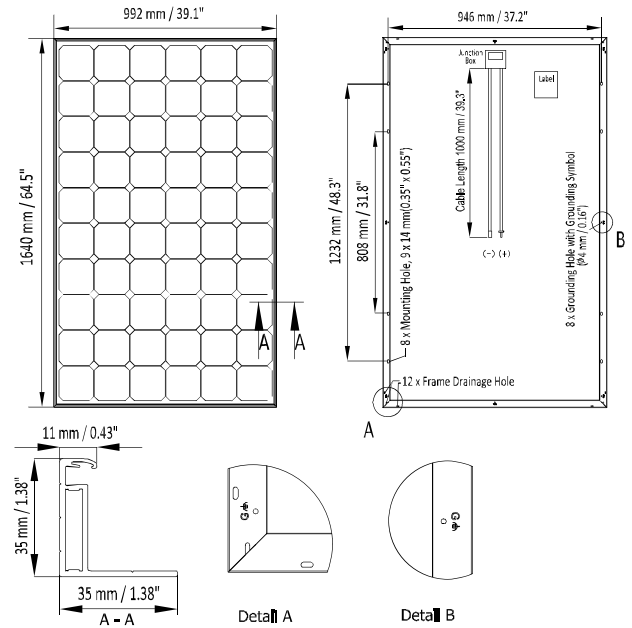
| Item | Specification |
|------------------------------------|---------------|
| Nominal Operating Cell Temperature | 44°C ± 2°C |
| Temperature Coefficient of Isc | 0.042 % / °C |
| Temperature Coefficient of Voc | -0.318 % / °C |
| Temperature Coefficient of Pmax | -0.427 % / °C |

* Nominal Operating Cell Temperature (NOCT): Irradiance 800W/m², Ambient Temperature 20 °C, Wind Speed 1 m/s

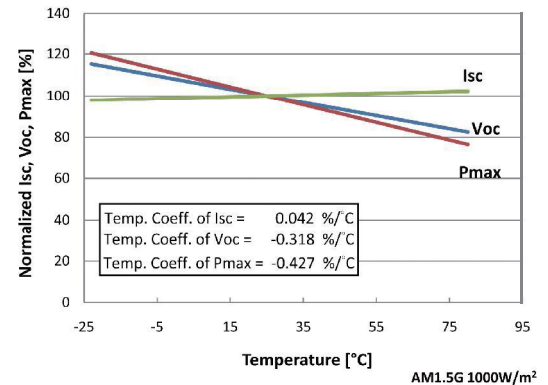
* Please refer to NSP's Standard Module Installation Manual before using the product

* Reduction in efficiency from 1000 W/m² to 200 W/m² at 25 °C: 3.5% ± 2 %

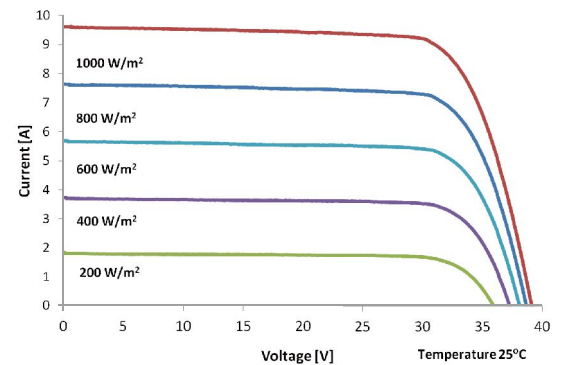
Front View & Back View



Dependence on Temperature



Dependence on Irradiance



Contact Us

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