

# D6M\_E3A

## 285 W - 305 W

### Mono-Crystalline Photovoltaic Module



Positive power tolerance  
0~+4.99 watt



Withstand strong snow load 5400 Pa/ wind load 2400 Pa



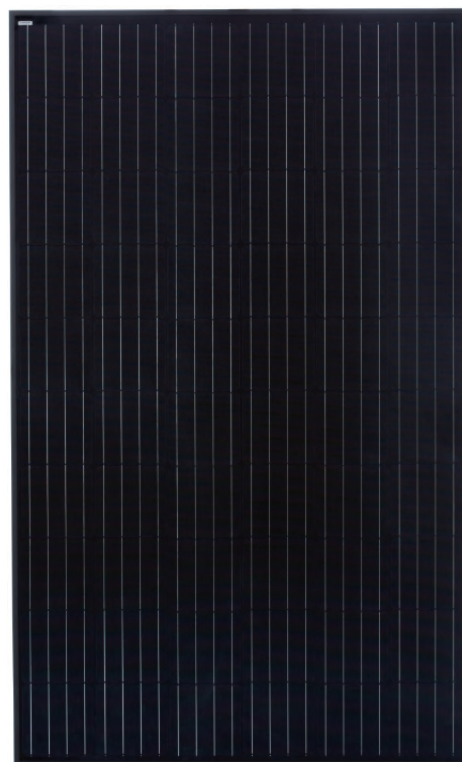
Excellent low light performance  
3.5% relative eff. reduction at low-irradiance (200W/m<sup>2</sup>)



100% EL inline inspection  
Better module reliability



Ammonia resistance  
According to IEC 62716 Ed. 1



#### Reliability & Certification

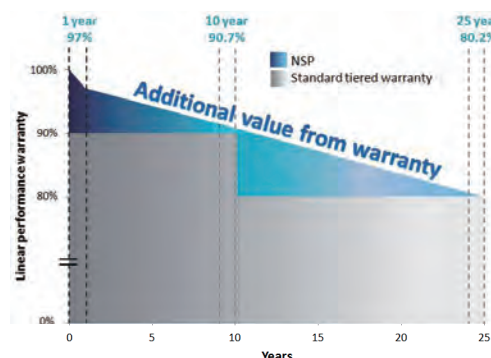
Product Guarantee: 10-year

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 / IEC 61730, CE, MCS, UL 1703, CEC

\* Please refer to NSP product warranty for details



For more information, please visit us at [www.nsp.com](http://www.nsp.com)



## NEO SOLAR POWER

### Electrical Data

MODEL	D6M285E3A	D6M290E3A	D6M295E3A	D6M300E3A	D6M305E3A
Maximum Rating Power (Pmax)	285 W	290 W	295 W	300 W	305 W
Module Efficiency	17.5%	17.8%	18.1%	18.4%	18.7%
Open Circuit Voltage (Voc)	39.16 V	39.31 V	39.45 V	39.54 V	39.65 V
Maximum Power Voltage (Vmpp)	31.81 V	32.02 V	32.25 V	32.35 V	32.44 V
Short Circuit Current (Isc)	9.49 A	9.59 A	9.68 A	9.77 A	9.86 A
Maximum Power Current (Imp)	8.96 A	9.06 A	9.15 A	9.28 A	9.43 A

\* Standard Test Conditions (STC): Cell Temperature 25°C, Irradiance 1000 W/m<sup>2</sup>, AM 1.5G

\* Values without tolerance are typical numbers

\* Specifications are subject to change without notice

### Mechanical Data

Item	Specification
Dimension	1640 mm (L) <sup>1</sup> x 992 mm (W) <sup>1</sup> x 35 mm (D) <sup>2</sup> / 64.5" (L) <sup>1</sup> x 39.1" (W) <sup>1</sup> x 1.38" (D) <sup>2</sup>
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, black
Junction Box	IP 67 rated
Frame	Anodized aluminum frame, black
Packaging Configuration	30 pcs Per Pallet, 840 pcs per 40' HQ container

<sup>1</sup> : With assembly tolerance of ± 2 mm [± 0.08"]

<sup>2</sup> : 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

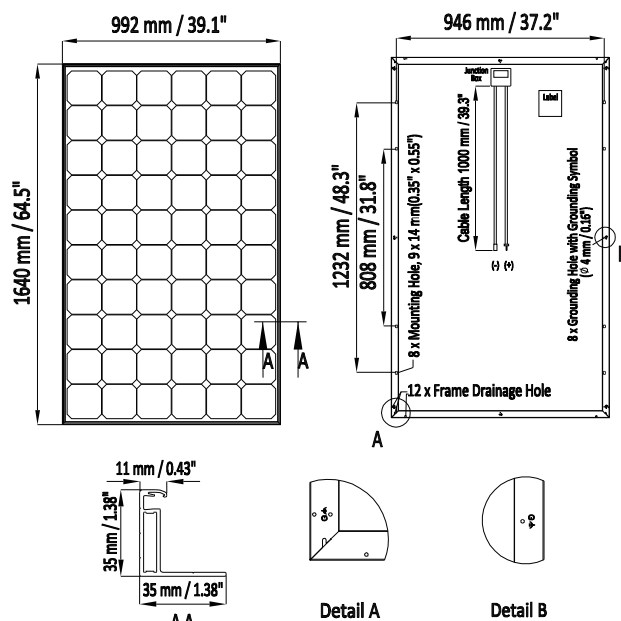
Item	Specification
Nominal Operating Cell Temperature	46 °C ± 2 °C
Temperature Coefficient of Isc	0.06% / °C
Temperature Coefficient of Voc	-0.28% / °C
Temperature Coefficient of Pmax	-0.38% / °C

\* Nominal Operating Cell Temperature (NOCT): Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s

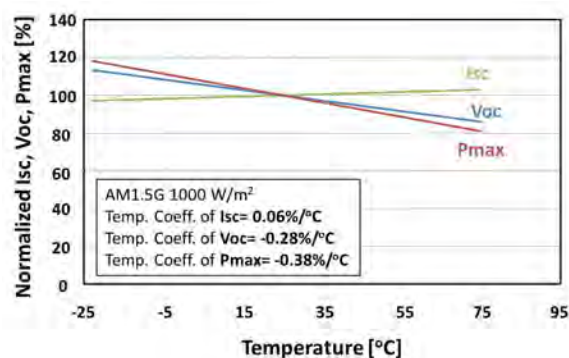
\* Please refer to NSP's Standard Module Installation Manual before using the product

\* Reduction in efficiency from 1000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> at 25°C: 3.5% ± 2%

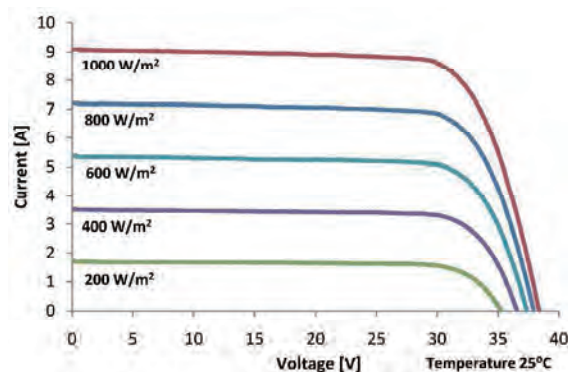
### Front View & Back View



### Dependence on Temperature



### Dependence on Irradiance



### Contact Us

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