

# D6M\_H3A

## 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/m<sup>2</sup>)



100% EL inline inspection  
Better module reliability



Ammonia resistance  
According to IEC 62716 Ed. 1



Design for 1500 VDC system voltage  
Reduce the system BOS effectively



#### Reliability & Certification

Product Guarantee: 10-year

Linear Performance Warranty

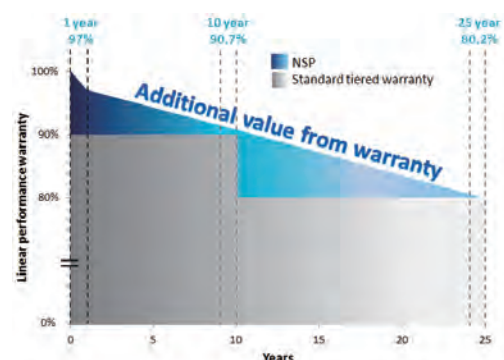
- 1-year: 97% power output  
then power degradation 0.7% per year till 25th year

- 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	D6M 275 H3A	D6M 280 H3A	D6M 285 H3A	D6M 290 H3A	D6M 295 H3A	D6M 300 H3A	D6M 305 H3A	D6M 310 H3A
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 (Impp)	8.80 A	8.95 A	9.07 A	9.18 A	9.26 A	9.35 A	9.43 A	9.52 A

\* Standard Test Conditions (STC): Cell Temperature of 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
Dimensions	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, 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

<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 1500 V
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C

## Temperature Characteristics

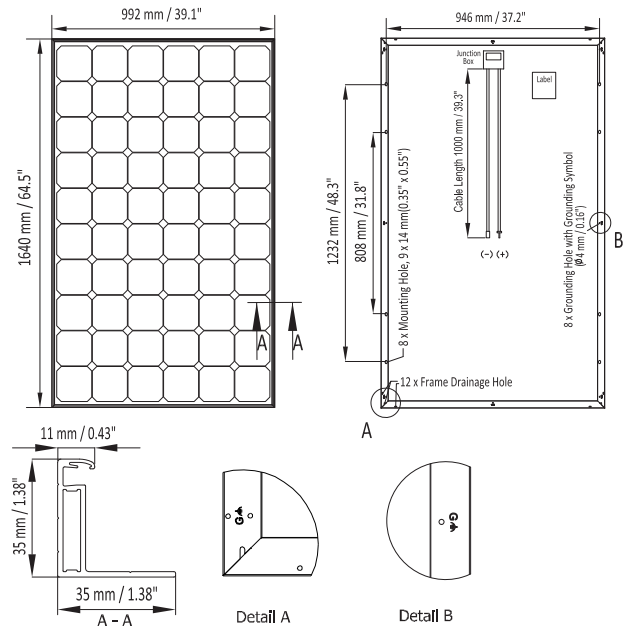
Item	Specification
Nominal Operating Cell Temperature	44°C ± 2°C
Temperature Coefficient of Isc	0.06% / °C
Temperature Coefficient of Voc	-0.28% / °C
Temperature Coefficient of Pmax	-0.38% / °C

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

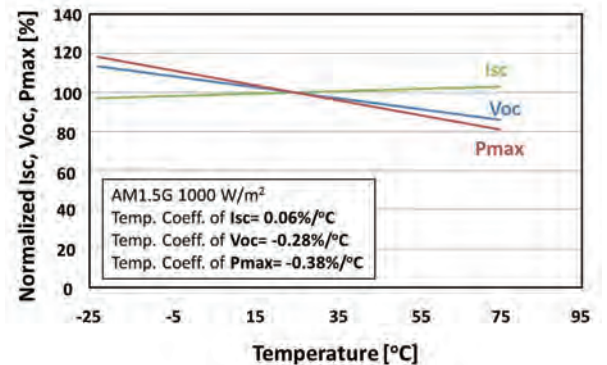
\* Please refer to NSP's Standard Module Installation Manual before using the product

\* 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

