

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



100% EL inline inspection  
Better module reliability



Ammonia resistance  
According to IEC 62716 Ed. 1



www.tuv.com  
ID 0000039214



Certificate Number MCS PV2013 Technology



PHOTOVOLTAIC MODULE  
E330639

### Reliability & Certification

Product guarantee: 10-year

Linear Performance Warranty

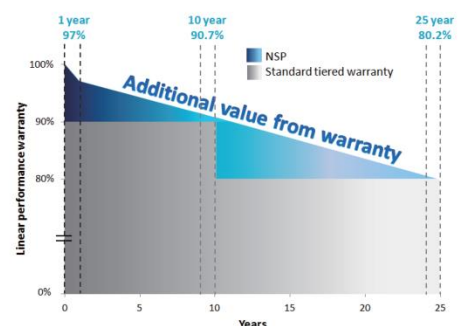
- 1-year: 97% power output  
then power degradation 0.7% per year till 25th year

- 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](http://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 (Impp)	8.80 A	8.95 A	9.07A	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/m<sup>2</sup>, AM 1.5  
 \*Values w/o tolerance are typical numbers  
 \*Specifications subject to change

## 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, 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

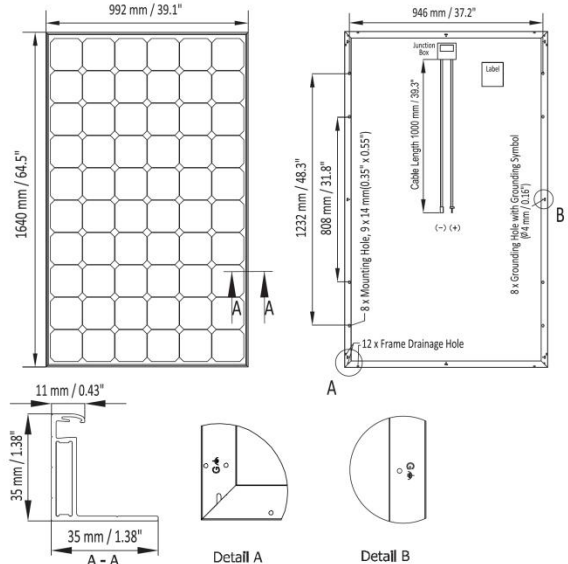
Item	Specification
Mechanical Load	5400 Pa (Certified by TUV Rheinland)
Maximum System Voltage	DC 1000 V
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C

## Temperature Characteristics

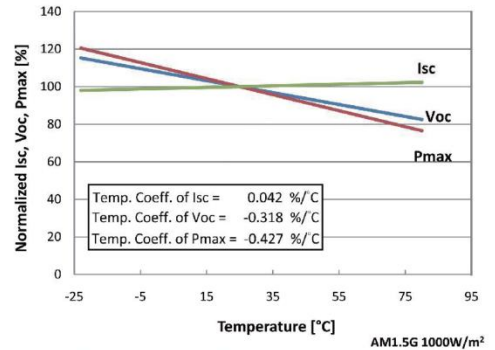
Item	Specification
Nominal Operating Cell Temperature	44°C ± 2°C
Temperature Coefficient of Isc	0.042 % / °C
Temperature Coefficient of Voc	-0.318 % / °C
Temperature Coefficient of Pmax	-0.427 % / °C

\* Nominal Operating Cell Temperature (NOCT): Irradiance 800W/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 %

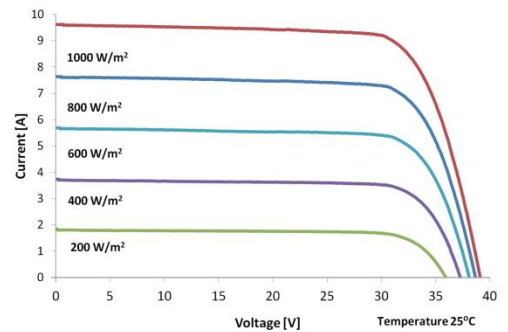
## Front View & Back View



## Dependence on Temperature



## Dependence on Irradiance



## Contact Us

### Neo Solar Power Corporation

Headquarters: 7, Li-Hsin 3rd Rd., Hsinchu Science Park, Hsinchu, 30078, Taiwan

Tel: +886-3-578-0011  
 Fax: +886-3-578-1255

www.nsp.com

Email: sales.module@nsp.com  
 Website: www.nsp.com