

# D6M\_E3A

## 265W - 295W

### Mono-Crystalline Photovoltaic Module



Positive power tolerance  
0~+4.99 watt



Withstand strong wind/snow load up to 5400 Pa  
Pass ASTM E330; Maximum wind speed: 197 km/h (safety factor 3)  
(Short-side installation  $\geq$  2400 Pa guaranteed)



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



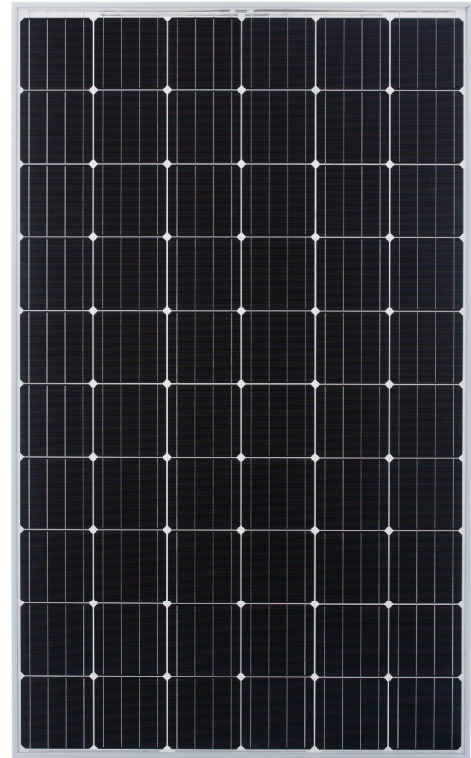
100% EL inline inspection  
Better module reliability



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

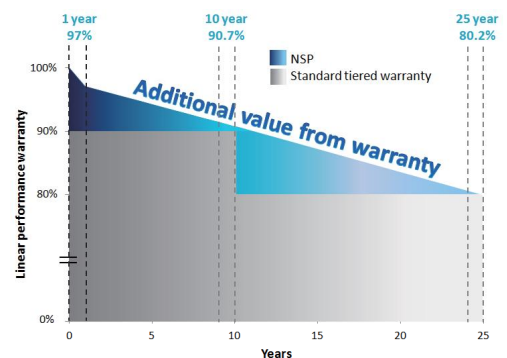
- 1-year: 97% power output  
then power degradation 0.7% per year till 25th year

- 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](http://www.nsp.com)



# NEO SOLAR POWER

## Electrical Data

MODEL	D6M 265 E3A	D6M 270 E3A	D6M 275 E3A	D6M 280 E3A	D6M 285 E3A	D6M 290 E3A	D6M 295 E3A
Maximum Rating Power (Pmax)	265 W	270 W	275 W	280 W	285 W	290 W	295 W
Module Efficiency	16.3%	16.6%	16.9%	17.2%	17.5%	17.8%	18.1%
Open Circuit Voltage (Voc)	38.59 V	38.79 V	38.99 V	39.04 V	39.12 V	39.18 V	39.27 V
Maximum Power Voltage (Vpm)	30.82 V	31.07 V	31.27 V	31.33 V	31.50 V	31.61 V	31.86 V
Short Circuit Current (Isc)	9.18 A	9.26 A	9.37 A	9.53 A	9.62 A	9.68 A	9.73 A
Maximum Power Current (Ipm)	8.62 A	8.69 A	8.80 A	8.95 A	9.07 A	9.18 A	9.26 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) x 992 mm (W) x 40 mm (D) / 64.5" (L) x 39.1" (W) x 1.57" (D)
Weight	18.5 kg / 40.8 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	26 pcs Per Pallet, 728 pcs Per 40' HQ container

## 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

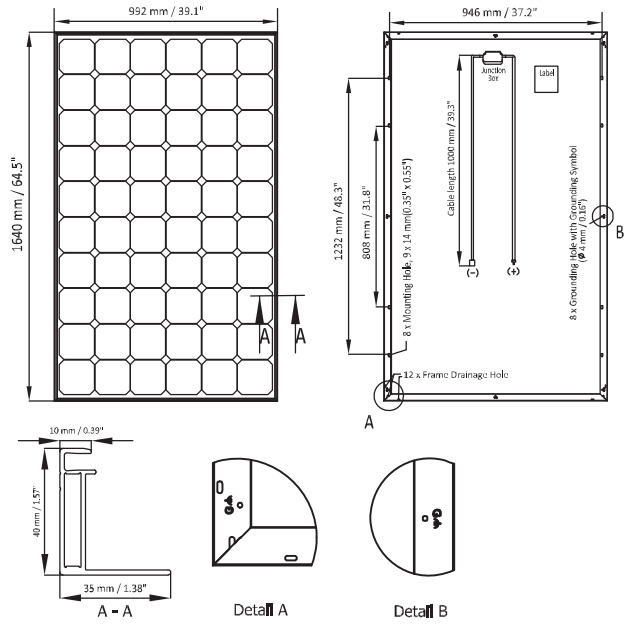
Item	Specification
Nominal Operating Cell Temperature	44°C ± 2°C
Temperature Coefficient of Isc	0.042 % / °C
Temperature Coefficient of Voc	-0.318 % / °C
Temperature Coefficient of Pmax	-0.427 % / °C

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

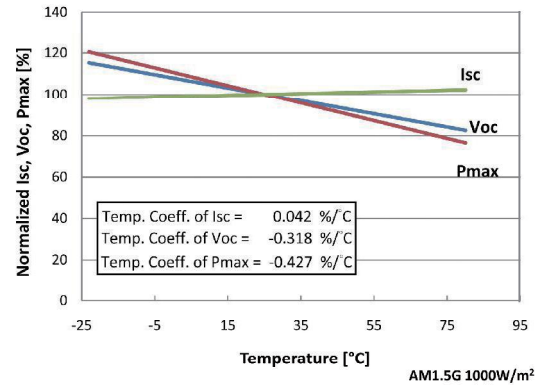
\* Please refer to NSP's Standard Module Installation Manual before using the product

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

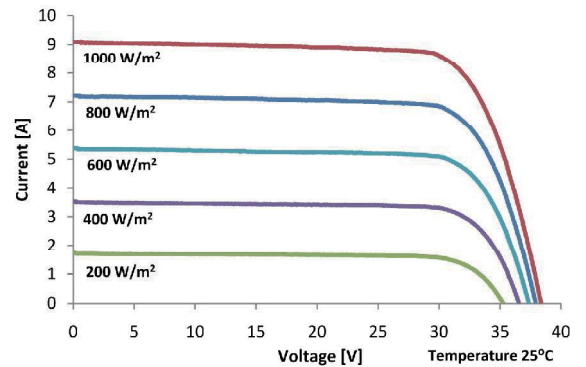
## Front View & Back View



## Dependence on Temperature



## Dependence on Irradiance



## Contact Us

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