

# D6P\_E3A

## 250W - 280W

### Multi-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>)



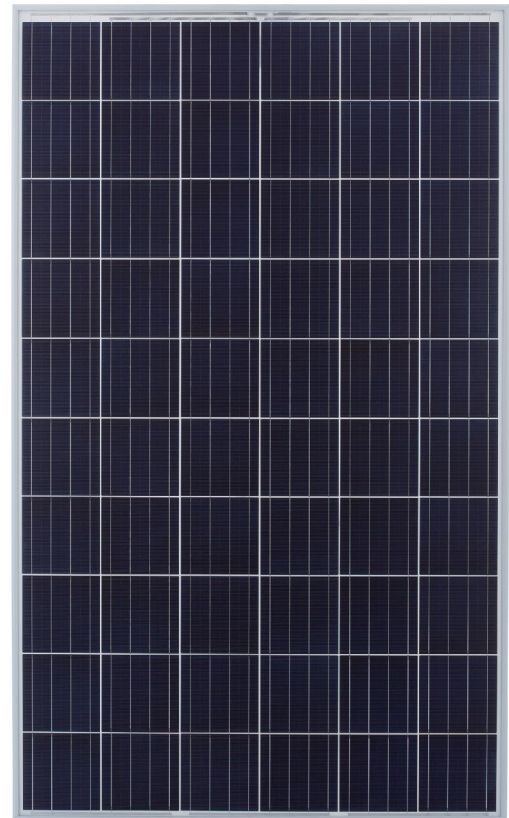
100% EL inline inspection  
Better module reliability



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

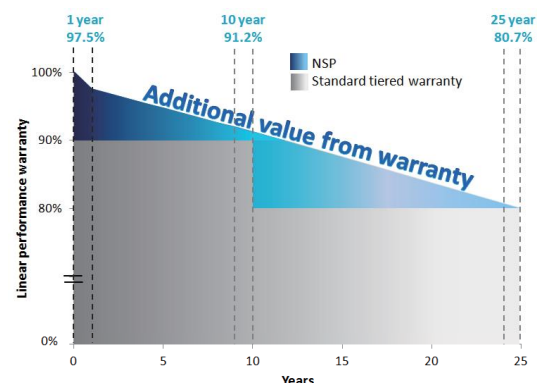
- 1-year: 97.5% power output  
then power degradation 0.7% per year till 25th year

- 25-year: 80.7% power output

- 10-year: 91.2% power output

IEC 61215 / IEC61730, CE, MCS

\* 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	D6P 250 E3A	D6P 255 E3A	D6P 260 E3A	D6P 265 E3A	D6P 270 E3A	D6P 275 E3A	D6P 280 E3A
Maximum Rating Power (Pmax)	250 W	255 W	260 W	265 W	270 W	275 W	280 W
Module Efficiency	15.4%	15.7%	16.0%	16.3%	16.6%	16.9%	17.2%
Open Circuit Voltage (Voc)	37.33 V	37.50 V	37.67 V	38.17 V	38.39 V	38.63 V	38.84 V
Maximum Power Voltage (Vpm)	30.34 V	30.64 V	30.93 V	30.97 V	31.04 V	31.18 V	31.57 V
Short Circuit Current (Isc)	8.69 A	8.76 A	8.83 A	9.02 A	9.15 A	9.23 A	9.29 A
Maximum Power Current (Ipm)	8.24 A	8.32 A	8.43 A	8.58 A	8.73A	8.85 A	8.87 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 multicrystalline 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

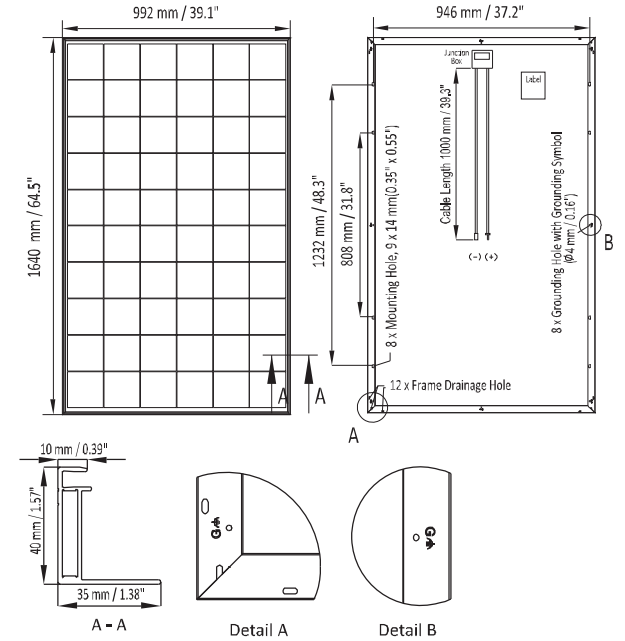
Item	Specification
Mechanical Load	5400 Pa (Certified by TUV Rheinland)
Maximum System Voltage	DC 1000 V
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C

## Temperature Characteristics

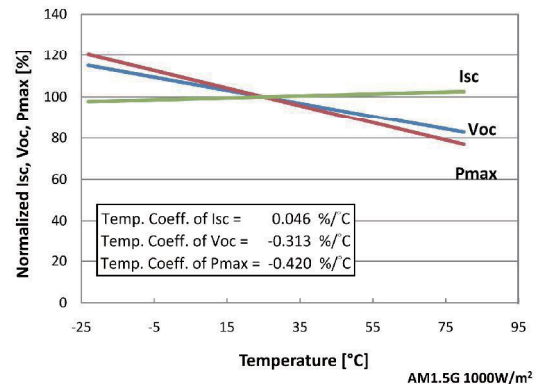
Item	Specification
Nominal Operating Cell Temperature	44 °C ± 2°C
Temperature Coefficient of Isc	0.046 % / °C
Temperature Coefficient of Voc	-0.313 % / °C
Temperature Coefficient of Pmax	-0.420 % / °C

\* 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 %

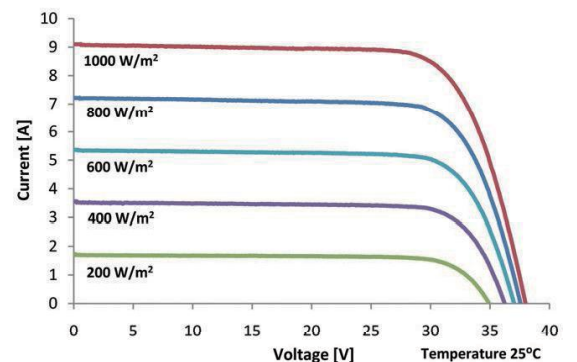
## Front View & Back View



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

Email: [sales.module@nsp.com](mailto:sales.module@nsp.com)  
 Website: [www.nsp.com](http://www.nsp.com)