

D6P_H3A / 60 cells
270W - 295 W
Multi-Crystalline PV Module

NSP Super series module uses NSP own high efficiency P-PERC multi crystalline solar cells, and advanced module manufacturing experiences.



take away
for an easy way



Key Features



Positive power tolerance
+0 ~ +4.99 watt



100% EL inline inspection
Better module reliability



Withstand heavy loading
front load 5400 Pa & rear load 2400 Pa



Ammonia resistance
According to IEC 62716 Ed. 1



Excellent low light performance
3.5% relative eff. Reduction at low-irradiance (200W/m²)

Neo Solar Power Corp.

Founded in 2005 by Dr. Quincy Lin (former Senior VP of TSMC) and Dr. Sam Hong (former Director of ITRI Research Division), Neo Solar Power Corporation (NSP) is a leading manufacturer of high performance and high quality solar cells and modules. With core competitive advantages in quality, technology and customer service, NSP became the world's largest merchant solar cell manufacturer by volume in 2013. After selling DelSolar to NSP, Delta Electronics (2308, TT) became the biggest shareholder of NSP with an 18% holding. Leveraging current leading position in solar cell technology, NSP will further expand into the global solar systems businesses, aiming to become the leading solar system integrator in the world.



Electrical Data

Model - STC		D6P270H3A	D6P275H3A	D6P280H3A	D6P285H3A	D6P290H3A	D6P295H3A
Maximum Rating Power (Pmax)	[W]	270	275	280	285	290	295
Module Efficiency	[%]	16.6	16.9	17.2	17.5	17.8	18.1
Open Circuit Voltage (Voc)	[V]	38.39	38.63	38.84	38.98	39.19	39.19
Maximum Power Voltage	[V]	30.85	30.98	31.42	31.64	31.84	31.84
Short Circuit Current (Isc)	[A]	9.19	9.28	9.34	9.41	9.47	9.47
Maximum Power Current	[A]	8.77	8.89	8.92	9.01	9.11	9.42

*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5
 *Values without tolerance are typical numbers.

Mechanical Data

Item	Specification
Dimensions	1640 mm (L) ¹ x 992 mm (W) ¹ x 35 mm (D) ² / 64.5" (L) ¹ x 39.1" (W) ¹ x 1.38" (D) ²
Weight	18 kg / 39.7 lbs
Solar Cell	60 multicrystalline 6" silicon cells (size: 156.75 x 156.75 mm)
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, 896 pcs per 40' HQ container

¹ : With assembly tolerance of ± 2 mm [± 0.08"]
² : With assembly tolerance of ± 0.8 mm [± 0.03"]

Operating Conditions

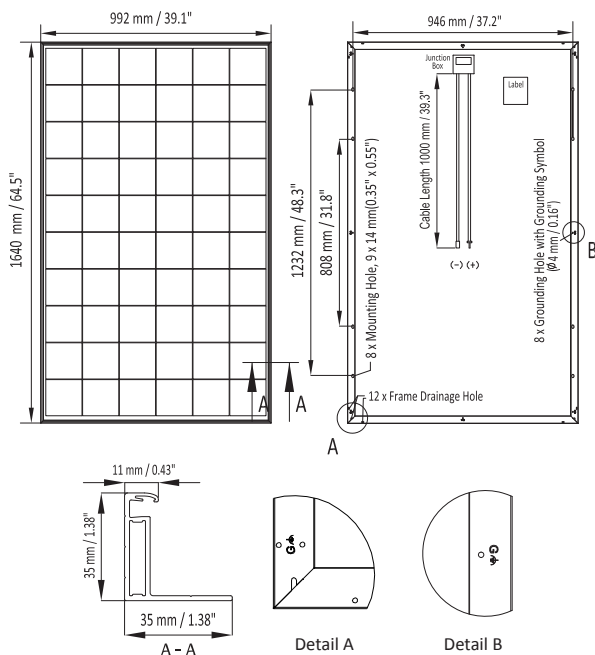
Item	Specification
Mechanical Load	5400 Pa (Certified by TUV Rheinland)
Maximum System Voltage	TUV/UL 1000 VDC
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

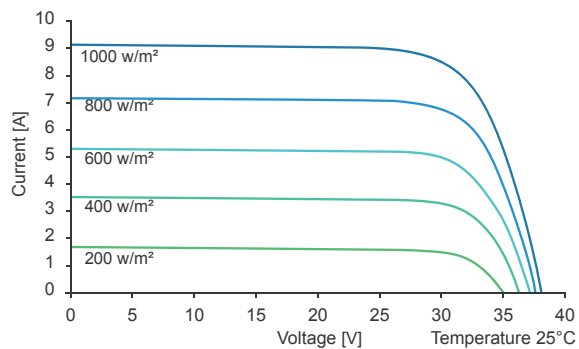
Item	Specification
Nominal Module Operating Temperature	44°C ± 2°C
Temperature Coefficient of Isc	0.07 % / °C
Temperature Coefficient of Voc	-0.30 % / °C
Temperature Coefficient of Pmax	-0.38 % / °C

*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.
 *Reduction in efficiency from 1000W/m² to 200W/m² at 25°C: 3 ± 2%.

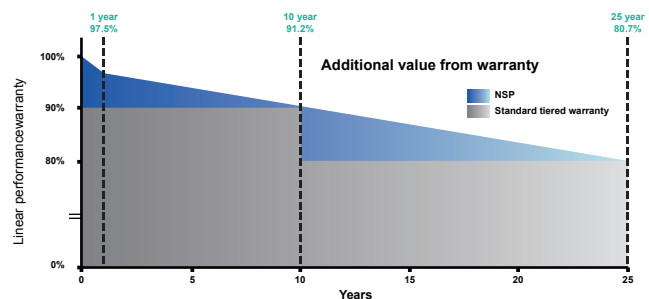
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



Output warranty
25
 Years

Product Guarantee
10
 Years

For more information, please visit us at www.nsp.com

