

## Incredible OFF GRID Operation

### GENERAL DESCRIPTION

Neptun's Solar Panels feature a robust solar module with 60 solar cells. The meticulous design ensures a high-yield, long-term performance for every module produced. Can be used in a variety of applications along side Neptun's solar compatible lighting fixtures and battery systems.

### APPLICATION

- Street Lighting
- Parking Lot Lighting
- Billboard & Sign Lighting
- Parking Garage Lighting
- Building Accent Lighting

### STRUCTURE, MATERIALS, & FEATURES

- 6" high-efficiency 180-200 micron thick silicon cells.
- Robust anodized aluminum frame to stand up to 5400 Pa load.
- Low-iron solar glass front panel with anti-reflective surface.
- Outstanding performance at low irradiance.
- High energy yield at Low NOCT.
- High module efficiency up to 15.85%.
- Positive power tolerance: 0 - +5W.
- Frame and slip-fitter mounting system included.
- Weather-tight whips provided for all connection cords.
- 5 Year Warranty on complete unit.

### ORDERING INFORMATION

Sample Number: NE-PPV-235W-SF  
Custom options and accessories available. Please consult factory

Series	System	Module Type	Mounting
NE = Neptun Energy	PPV = Polycrystalline Solar Panel	235W = 235 Watt	SF = Slip Fitter Mount



### DATA - AT STANDARD TEST CONDITIONS (STC)

Model No.	Nominal Power (WP)	Voltage @ Nominal Power (V)	Current @ Nominal Power (A)	Open-Circuit Voltage (V)	Short-Circuit Voltage (A)	Module Efficiency (%)
NE-PPV-235W	≥ 235	30.2	7.78	37.1	8.42	14.0

\* STC (1,000 W/m<sup>2</sup>, AM 1.5 cell temperature 25°C)

\* Power sorting tolerance (as measured by flasher): -0 Watts / +4.99 Watts

### DATA - AT NORMAL OPERATING CELL TEMPERATURE (NOCT)

Model No.	Nominal Power (WP)	Voltage @ Nominal Power (V)	Current @ Nominal Power (A)	Open-Circuit Voltage (V)	Temperature (°C)
NE-PPV-235W	≥ 169	27.2	6.75	33.9	45.5

\* NOCT (800 W/m<sup>2</sup>, AM 1.5, windspeed 1 m/s, ambient temperature 20°C)

### DATA - TEMPERATURE COEFFICIENTS

Model No.	Power (% / °C)	Open-Circuit Voltage (% / °C)	Short-Circuit Current (% / °C)
NE-PPV-235W	-0.44	-0.32	+0.04

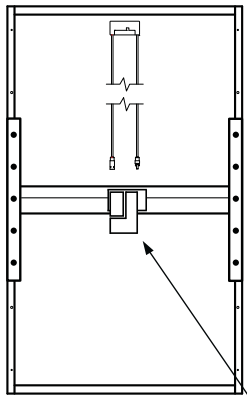
### DATA - AT LOW IRRADIATION

\* At a low irradiation intensity of 200 W/m<sup>2</sup> (AM 1.5 and cell temperature 25°C) 97% of the STC module efficiency (1000 W/m<sup>2</sup>) will be achieved

### SPECIFICATIONS

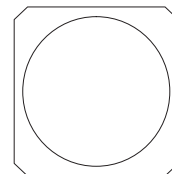
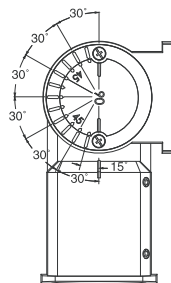
- Cell Type..... Poly-crystalline
- Cell Arrangement..... 60 (6 x 10)
- System Voltage..... 600 VDC
- Maximum Reverse Current..... 15 A
- Operating Module Temperature..... -40°C to +85°C
- Maximum Load..... 75 lbs/ft<sup>2</sup>
- Total Harmonic Distortion..... < 15%
- Weight..... 58 lbs
- EPA Rating..... 16.8 ft<sup>2</sup>
- FCC Compliance..... Part 18, Subp. C
- UL Standard 1703..... Yes
- Warranty..... 5 Year

### MOUNTING OPTIONS



Adjustable Slip Fitter Mount

#### Adjustable Slip Fitter Mount



2-1/2" I.D.  
Accepts up to 2-3/8"  
Round Tenon or Pipe