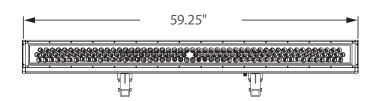
Solar Compatible LED AD-POSTERTM II - BILLBOARD FIXTURES

24VDC OPERATION





UP TO 75% ENERGY SAVINGS

Incredible OFF GRID Operation

GENERAL DESCRIPTION

Neptun's Ad-Poster™ II LED billboard fixtures combine architectural form and patented design to make it an excellent choice for retrofit or new billboard applications. The 100 PCS, High Output LED's, and custom engineered optics, provide highly uniform illumination of various billboard sizes. The 24 Volt DC driver allows for compatible use with Solar or Wind powered systems. It can replace existing HID billboard fixtures up to 400W.

APPLICATION

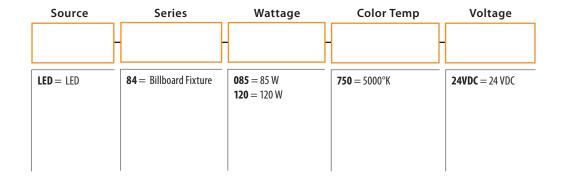
- 24'W x 15'H Billboard Requires 1 Unit
- 36'W x 15'H Billboard Requires 2 Units
- 48'W x 15'H Billboard Requires 3 Units

STRUCTURE, MATERIALS, & FEATURES

- · Heavy-gauge, die-cast aluminum housing with cooling fins.
- Corrosion resistant electrocoat gray finish (custom colors available).
- Slim, state of the art, low profile design for minimum wind load resistance.
- Heat and impact resistant tempered flat glass lens.
- Continuous silicone gasketing surrounds lens for IP67 weather tight seal.
- · 1-1/2" I.D. Slip Fitter Accepts up to 1-1/4" Pipe or Tenon. (hardware included)
- · Correlated Color Temperature of (5000°K) for greater visibilty.
- · High power factor, low THD driver.
- InstantON flicker-free Cold Start and Hot Re-Start.
- Up to 15 years Maintenance free operation.
- · 5 Year Warranty on complete fixture. (LED's, Driver, & Housing)

ORDERING INFORMATION

Sample Number: LED-84085-750-24VDC Custom options and accessories available. Please consult factory





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Solar Compatible LED AD-POSTERTM II - BILLBOARD FIXTURES

PRODUCT INFORMATION

Model No.	Description	Rated Watts	Input Watts	Initial Lumens	Input Line Voltage (VDC)	Max Line Current (Amp)	Power Factor	Weight
LED-84085	LED Billboard Fixture	85	87	6,800	24	3.71	>0.98	35 lbs
LED-84120	LED Billboard Fixture	120	122	9,000	24	5.25	>0.98	35 lbs

SPECIFICATIONS

	LED Driver	Constant Current
	Power Supply	
	Start Method	
	Hot Re-start	InstantON
	Input Line Voltage	24 VDC
	Input Line Frequency	50/60 Hz
	Driver Off-State Draw	
	Sound Rating	Class A
	LED / Driver System Life	70,000 Hrs.
•	Lumen Maintenance @50,000Hrs	>70%

Color Temperature	5000°K
Color Rendering Index (CRI)	
Minimum Starting Temperature	35°C
Maximum Starting Temperature	40°C
Lumens per Watt	>70
Power Factor	> 0.98
Shock / Vibration Resistant	Yes
FCC Compliance	Part 18, Subp. C
IP Rating	IP67
Warranty	5 Year



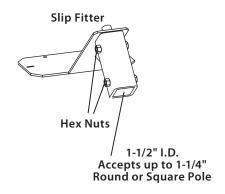
36' x 15' BILLBOARD

- · (2) Ad-Poster II Units
- · (2) Solar Panels
- · (1) Battery System

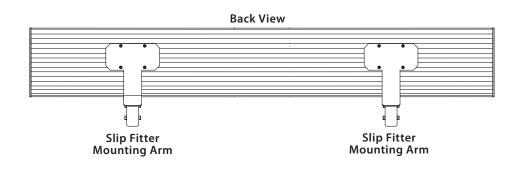
FOR BEST RESULTS

- Fixtures should be mounted at least 6 ft. from the surface of the board
- Fixtures should be mounted at least 1 ft. from the bottom or top of the board

MOUNTING OPTIONS



Neptun Light, Inc. 13950 Business Center Drive Lake Forest, IL 60045 Fax: 847.735.8004



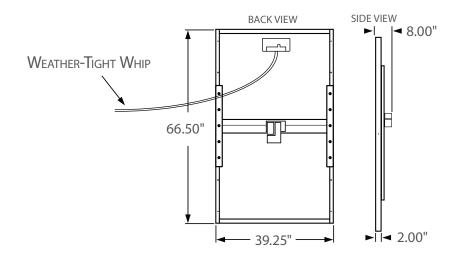
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Spec. Rev. 8-2012

SOLAR 235W POLYCRYSTALLINE PANELS





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

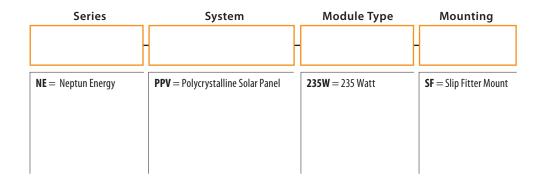
- · Street Lighting
- · Parking Lot Lighting
- · Billboard & Sign Lighting
- · Parking Garage Lighting
- · Building Accent Lighting

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.
- \cdot 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







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235W POLYCRYSTALLINE PANELS

DATA - At Standard Test Conditions (STC)

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

^{*} STC (1,000 W/m², AM 1.5 cell temperature 25°C

DATA - At Normal Operating Cell Temperature (NOCT)

Model No.	Nominal Power 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/m², 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

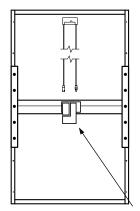
DATA - AT LOW IRRADIATION

SPECIFICATIONS

	Cell Type	Poly-crystalline
	Cell Arrangement	
	System Voltage	600 VDC
	Maximum Reverse Current	15 A
	Operating Module Temperature	40°C to +85°C
•	Maxium Load	75 lbs/ft²

Total Harmonic Distortion.	< 15%
Weight	58 lbs
EPA Rating	16.8 ft ²
FCC Compliance	Part 18, Subp. C
UL Standard 1703	
Warranty	

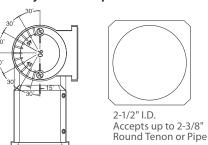
MOUNTING OPTIONS



Adjustable Slip Fitter Mount

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Adjustable Slip Fitter Mount



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Spec. Rev. 8-2012

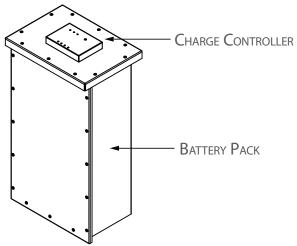
^{*} Power sorting tolerance (as measured by flasher): -0 Watts / +4.99 Watts

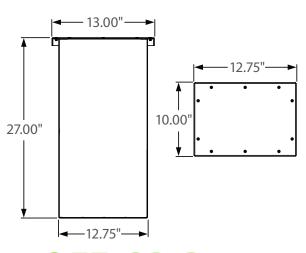
^{*} At a low irradiation intensity of 200 W/m² (AM 1.5 and cell temperature 25°C) 97% of the STC module efficiencey (1000 W/m²) will be achieved



180Ah 24V LFP BATTERY PA

WITH SOLAR CHARGE CONTROLLE





Incredible OFF GRID Operation

GENERAL DESCRIPTION

Neptun's LFP 24V battery systems feature a long life, fully rechargeable unit. The exceptional storage system allows for over 30 hours of use without a single recharge. It can be used in a variety of applications along side Neptun's solar compatible lighting fixtures and PV Solar Panel systems.

APPLICATION

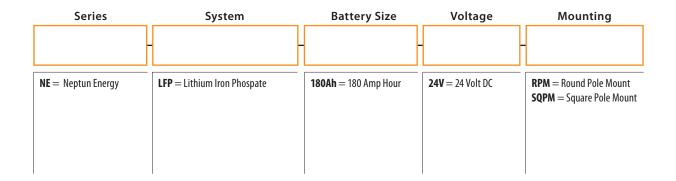
- Street Lighting
- Parking Lot Lighting
- Billboard & Sign Lighting
- Parking Garage Lighting
- **Building Accent Lighting**

STRUCTURE, MATERIALS, & FEATURES

- · Heavy-gauge, die-cast aluminum housing.
- Lithium Iron Phospate (LFP) Battery's.
- Intelligent PWM Charge/Discharge Controller for MPPT operation.
- Programmable On/Off time of operation for 4, 6, 8, 10, or 12 hours.
- Corrosion resistant electrocoat gray finish (custom colors available).
- · Hinged aluminum door frame incorporates stainless steel hardware.
- Continuous silicone gasketing surrounds housing for weather tight seal.
- Square or Round pole mounting brackets included.
- 5 Year Warranty on complete unit.
- Compatable with Neptun LED & Induction 24V lighting fixtures (90-100W).

ORDERING INFORMATION

Sample Number: NE-LFP-180Ah-24V-RPM Custom options and accessories available. Please consult factory







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180Ah 24V LFP BATTERY PA

WITH SOLAR CHARGE CONTROLLE

PRODUCT INFORMATION - LFP 24V BATTERY

Model No.	Typical Capacity	Nominal Voltage	Discharge Cutoff	Max Charge Voltage	Max Dicharge Current	
NE-LFP-180Ah-24V	180 Ah	24V	AUTO @ 20% CAPACITY	40V	20A	

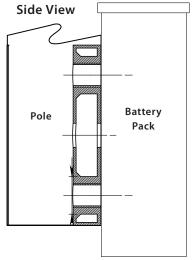
PRODUCT INFORMATION - PWM Solar Charge Controller

Model No.	Total Rated Charge Current (Max)	Total Rated Load Current (Max)	System Voltage	
NE-CL10-20-24V	20A	20A	24V/12V AUTO	

SPECIFICATIONS

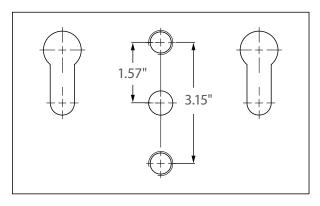
Battery Type.	. Lithium Iron Phosphate	Weight	58 lbs
System Voltage		EPA Rating	2.43 ft ²
Charge Operating Temperature		FCC Compliance	
Discharge Operating Temperature	20°C - 60°C	UL Standard 1703	Yes
Storage Temperature	20°C - 55°C	Warranty	5 Year
Storage Humidity	< 85%		

MOUNTING OPTIONS



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Drilling Pattern



Round Pole Mount (RPM) Square Pole Mount (SQPM)

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