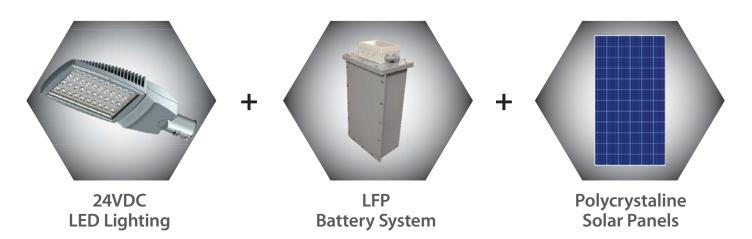
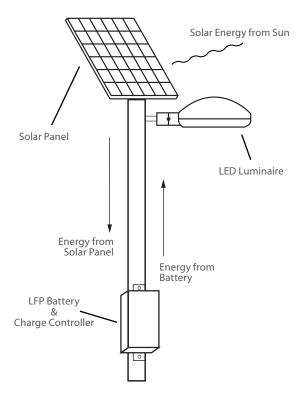


SOLAR LIGHTING SYSTEM 80W LED STREET LIGHTING SYSTEM



Incredible OFF GRID Operation



GENERAL DESCRIPTION

Neptun's 80W LED Solar Street Lighting System includes a Polycrystaline Solar Panel, LED Street Light Fixture, and long-life LFP Battery System with Charge Controller. This off grid operation eliminates many of the high costs associated with standard lighting installations. No expensive trenching, transformers or meters required. The Solar Panel and Charge Controller system allows for dusk-to-dawn operation with no monitoring needed. Neptun's exceptional LFP battery storage system allows for over 30 hours of use without a single recharge.

APPLICATION

- Street Lighting
- Parking Lot Lighting
- \cdot Security Lighting
- Pathway Lighting

SOLAR SYSTEM CONFIGURATION (ORDERING INFORMATION)

Induction Fixture	Battery System	Solar Panel
LED-451080-24VDC	NE-VLFP-100Ah-24VDC	NE-PPV-190W

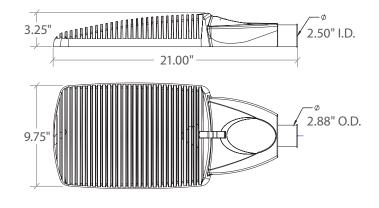






SOLAR LIGHTING SYSTEM 24VDC LED STREET LIGHT FIXTURE





PRODUCT INFORMATION

Model No.	Description	Rated Watts	Input Watts	Initial Lumens	Input Line Voltage (VDC)	Max Line Current (Amp)	Power Factor	Weight
LED-451080-24	VDC LED Mini Street Light	80	82	6,400	24	3.49	>0.98	26 lbs

SPECIFICATIONS

•	LED Driver	Constant Current
•	Power Supply	.350mA
•	Start Method	InstantON
•	Hot Re-start	InstantON
•	Input Line Voltage	24 VDC
•	Input Line Frequency	50/60 Hz
•	Driver Off-State Draw	0 Watts
•	Sound Rating	Class A
•	LED / Driver System Life	70,000 Hrs.
•	Lumen Maintenance @50,000Hrs	> 70%
•	Color Temperature	5000°K

- . Color Rendering Index (CRI) > 70 Minimum Starting Temperature-40°C .
- Power Factor > 0.98 .
- FCC CompliancePart 18, Subp. C
- EPA Rating0.71
- Housing IP Rating IP65 .
- . Optics IP RatingIP66
- .

MOUNTING OPTIONS

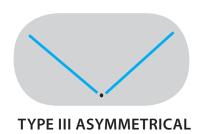


Accepts 1-1/4" - 2-3/8" O.D. **Tenon or Pipe**



(2) 5-16" Stainless Steel Bolts

PHOTOMETRICS (See Complete IES File)

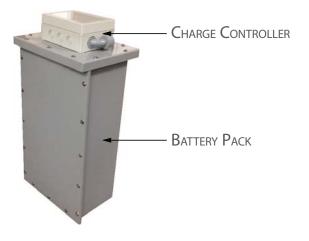


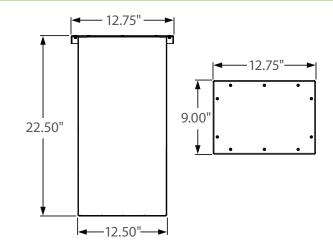
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SOLAR LIGHTING SYSTEM 100Ah 24VDC LFP VERTICAL BATTERY PAC

WITH SOLAR CHARGE CONTROLLER





PRODUCT INFORMATION - LFP 24V BATTERY

Model No.	Typical Capacity	Nominal Voltage	Discharge Cutoff	Max Charge Voltage	Max Discharge Current	
NE-VLFP-100Ah-24VDC	100 Ah	24V	AUTO @ 20% CAPACITY	40V	20A	

PRODUCT INFORMATION - PWM SOLAR CHARGE CONTROLLER

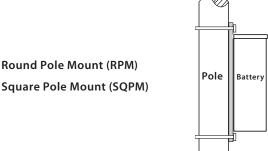
Model No.	Total Rated	Total Rated	System
	Charge Current (Max)	Load Current (Max)	Voltage
NE-CL10-20-24VDC	20A	20A	24V/12V AUTO

SPECIFICATIONS

- Battery Type.....Lithium Iron Phosphate .
- Charge Operating Temperature0°C 45°C
- Discharge Operating Temperature-20°C 60°C
- Storage Temperature-20°C 55°C
- Storage Humidity < 85%

MOUNTING OPTIONS

Round Pole Mount (RPM)





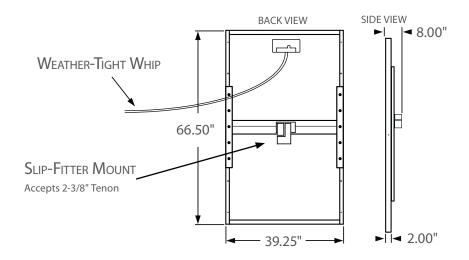
32.00"





SOLAR LIGHTING SYSTEM **190W POLYCRYSTALLINE PANELS**





DATA - AT STANDARD TEST CONDITIONS (STC)

М	odel No.	Nominal Power (WP)	Voltage @ Nominal Power (V)	Current @ Nominal Power (A)	Open-Circuit Voltage (V)	Short-Circuit Voltage (A)	Module Efficiency (%)
NE-	PPV-190W	≥ 190	30.2	7.78	37.1	8.42	14.0

* STC (1,000 W/m², 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-190W	≥ 149	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-190W	-0.44	-0.32	+0.04

DATA - AT LOW IRRADIATION

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

SPECIFICATIONS

- · Cell Type.....Poly-crystalline

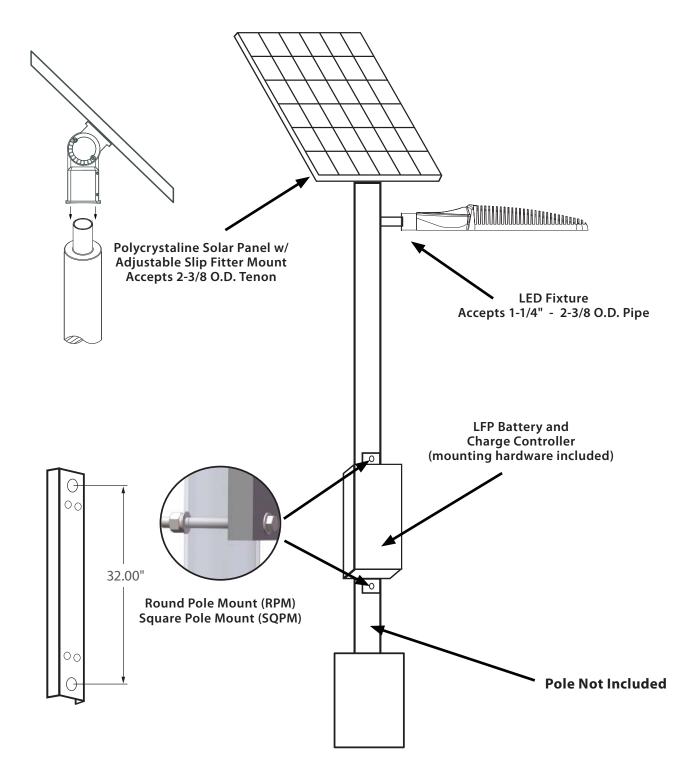
- Operating Module Temperature-40°C to +85°C

- FCC Compliance Part 18, Subp. C UL Standard 1703 Yes

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

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