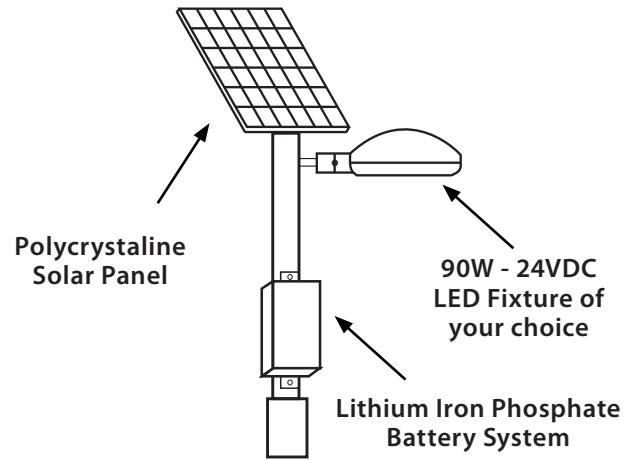




### Choose Any Neptun LED Fixture



## Incredible OFF GRID Operation

### GENERAL DESCRIPTION

Neptun's LFP Solar Lighting Systems feature a long life, fully rechargeable unit that allows for complete OFF GRID operation. The exceptional storage system allows for up to 3 Days Autonomy / use without a single recharge. Neptun's solar lighting systems are ideal solutions for areas where electricity is unavailable or you need to eliminate many of the high costs associated with standard lighting installations.

### APPLICATION

- Street & Area Lighting
- Billboard & Sign Lighting
- Flood Lighting
- Building Accent Lighting
- Park Lighting
- Security Lighting

### STRUCTURE, MATERIALS, & FEATURES

- 90W High Output Neptun LED fixture of your choice.
- Battery enclosure with die-cast aluminum housing and mounting system.
- 180Ah LFP (Lithium Iron Phosphate) battery with 5,000 cycles estimated life.
- High efficiency driver & MPPT charge controller supplied with fixture.
- 300W Polycrystalline Solar Panel with slip-fitter mounting brackets.
- Corrosion resistant electrocoat finish (custom colors available).
- All enclosures and mounting systems feature stainless steel hardware.
- Square or Round pole mounting brackets included.
- 5 Year Warranty on complete system
- Compatible with any Neptun LED 24VDC lighting fixtures.

### ORDERING INFORMATION

Sample Number: LED-XXX-24VDC-NE-SLR90-LFP-24VDC-RPM-GRY  
Custom options and accessories available. Please consult factory

Fixture	System	Battery Mounting	Color
<p><b>LED-XXX090-24VDC</b> = Choose any 90W Fixture from Neptun's outdoor or indoor catalog or multiple fixtures totaling 90W</p>	<p><b>NE-SLR90-LFP-24VDC</b> = Solar System for 90W LED fixture. * Includes 300W PPV Solar Panel, 180Ah 24VDC LFP Battery system, all mounting hardware, and wiring</p>	<p><b>RPM</b> = Round Pole Mount <b>SQPM</b> = Square Pole Mount <b>FSM</b> = Free Standing Ground Mount (for flood, billboard, or wall mounting applications)</p>	<p><b>GRY</b> = Grey <b>BRZ</b> = Bronze ** Custom Colors Available</p>



### FIXTURE SPECIFICATIONS **Choose Any Neptun LED Fixture**

Type :	LED (See product sheet for full specification)
Wattage:	90W
Projected (L70) @ 25°C :	> 100,000 hrs.
Lumens per Watt :	> 100
Input Line Voltage :	24 vdc
Max Line Current :	3.93A

### CHARGE CONTROLLER SPECIFICATIONS

Type :	Programmable Intelligent MPPT (Included in fixture)
Voltage:	12 vdc or 24 vdc
Output Current :	2400mA
Overvoltage Protection :	(24V) 32.0V
Efficiency of Constant Current :	90% ~ 96%
Operating Temp. :	-40°C ~ +70°C
IP Rating :	IP68

### BATTERY SPECIFICATIONS

Battery Type:	Sealed Lithium Iron Phosphate (LFP)
Weight :	210 lbs. (includes enclosure and mounting arm)
Dimensions :	(Pole) 13.00"L x 10.00"W x 28.00"H (Gnd.) 25.00"L x 9.50"W x 13.50"H
EPA Rating :	2.43 ft. <sup>2</sup>
Design Life :	15 Years (5,000 cycles)
Usage :	Solar / Wind System
Maintenance :	Maintenance Free
Nominal Capacity :	180Ah
Voltage :	24 vdc
Discharge Cutoff :	Auto @ 20% Capacity
Charge Operating Temp. :	0°C ~ 45°C
Storage Temp. :	-20°C ~ 55°C
Storage Humidity :	< 85%
UL Standard 1703 :	Yes
Warranty :	5 Years

### SOLAR PANEL SPECIFICATIONS

Type :	Polycrystalline - Low-iron solar glass front panel w/ anti-reflective surface
Cell Arrangement :	60 (6 x 10)
Wattage :	300w
Frame :	Silver Anodized Aluminum Alloy
Mounting :	Adjustable Slip Fitter
Weight :	75 lbs. (including mounting brackets)
Dimensions :	39.25"L x 2.00"W x 77.50"H
Operating Module Temp. :	-40°C ~ +85°C
Positive Power Tolerance :	0 ~ +5w
Nominal Power (WP) :	≥ 300w
Voltage @ Normal Power :	45.1V
Current @ Normal Power :	8.94A
Open-Circuit Voltage :	35.2V
Short-Circuit Current :	8.52A
Maximum System Voltage :	600 vdc
Maximum Reverse Current :	15A
Module Efficiency :	15.3%
EPA Rating :	16.8 ft. <sup>2</sup>
Product Warranty :	10 Year
Performance Warranty :	25 Year @ 80% output

Area Lighting



Street Lighting



Facade Lighting



Flood Lighting



Security Lighting



Billboard Lighting



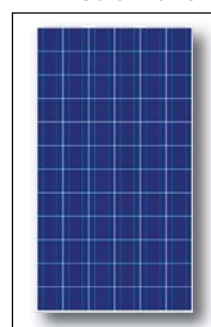
Pole Mount  
(RPM/SPM)



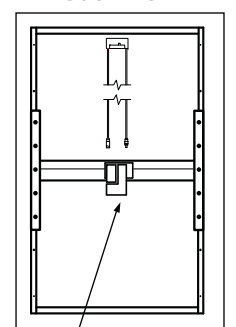
Ground Mount  
(FSM)



PPV Solar Panel



Back View



Adjustable Slip Fitter

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Neptun Light, Inc. reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.  
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