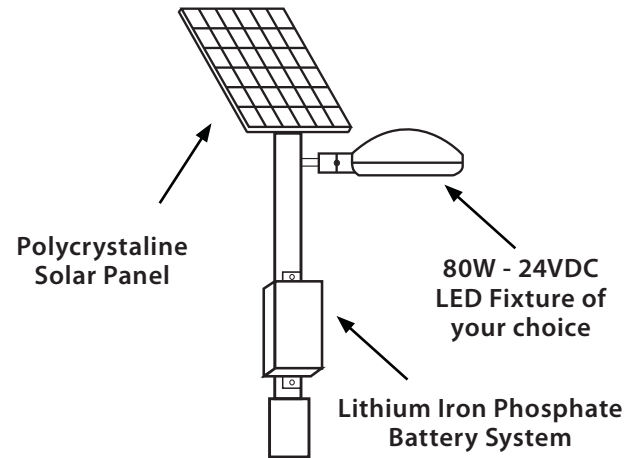




Choose Any Neptun LED Fixture



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

- 80W 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.
- 250W 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-SLR80-LFP-24VDC-RPM-GRY
Custom options and accessories available. Please consult factory

| Fixture | System | Battery Mounting | Color |
|---|---|--|---|
| <p>LED-XXX080-24VDC = Choose any 80W Fixture from Neptun's outdoor or indoor catalog or multiple fixtures totaling 80W</p> | <p>NE-SLR80-LFP-24VDC = Solar System for 80W LED fixture. * Includes 250W PPV Solar Panel, 180Ah 24VDC LFP Battery system, all mounting hardware, and wiring</p> | <p>RPM = Round Pole Mount SQPM = Square Pole Mount FSM = Free Standing Ground Mount (for flood, billboard, or wall mounting applications)</p> | <p>GRY = Grey BRZ = Bronze ** Custom Colors Available</p> |



FIXTURE SPECIFICATIONS Choose Any Neptun LED Fixture

| | |
|--------------------------|--|
| Type : | LED (See product sheet for full specification) |
| Wattage: | 80W |
| Projected (L70) @ 25°C : | > 100,000 hrs. |
| Lumens per Watt : | > 100 |
| Input Line Voltage : | 24 vdc |
| Max Line Current : | 3.49A |

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. ² |
| 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 : | 250w |
| Frame : | Silver Anodized Aluminum Alloy |
| Mounting : | Adjustable Slip Fitter |
| Weight : | 65 lbs. (including mounting brackets) |
| Dimensions : | 39.25"L x 2.00"W x 66.50"H |
| Operating Module Temp. : | -40°C ~ +85°C |
| Positive Power Tolerance : | 0 ~ +5w |
| Nominal Power (WP) : | ≥ 250w |
| Voltage @ Normal Power : | 30.8V |
| Current @ Normal Power : | 8.14A |
| Open-Circuit Voltage : | 37.5V |
| Short-Circuit Current : | 8.67A |
| Maximum System Voltage : | 600 vdc |
| Maximum Reverse Current : | 15A |
| Module Efficiency : | 15.05% |
| EPA Rating : | 16.8 ft. ² |
| Product Warranty : | 10 Year |
| Performance Warranty : | 25 Year @ 80% output |

Area Lighting



Street Lighting



Facade Lighting



Flood Lighting



Security Lighting



Billboard Lighting



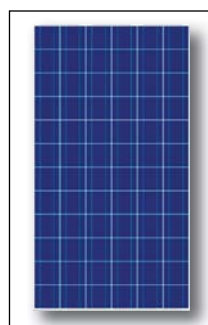
Pole Mount
(RPM/SPM)



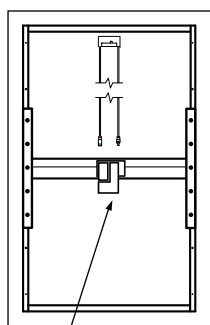
Ground Mount
(FSM)



PPV Solar Panel



Back View



Adjustable Slip Fitter