NEPTŪN
L I G H T

SOLAR LIGHTING SYSTEM
LFP BATTERY SYSTEM
W/ 100W LIGHTING FIXTURE

Choose Any Neptun LED Fixture

Polycrystaline Solar Panel

100W - 24VDC LED Fixture of your choice

Lithium Iron Phosphate Battery System
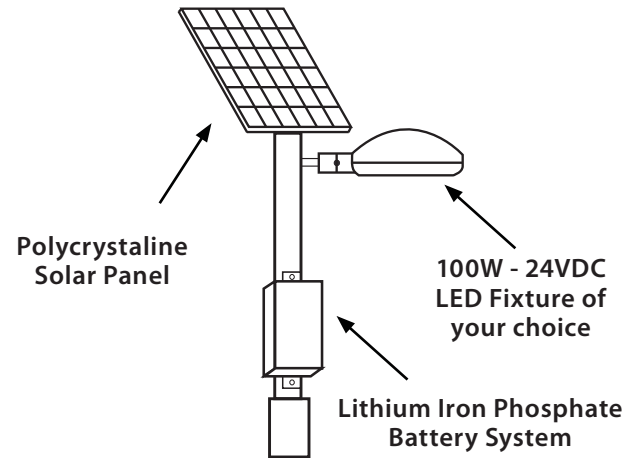
Incredible OFF GRID Operation

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
· 100W 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 efficency 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-SLR100-LFP-24VDC-RPM-GRY
Custom options and accessories available. Please consult factory

Fixture	System	Battery Mounting	Color
LED-XXX100-24VDC = Choose any 100W Fixture from Neptun's outdoor or indoor catalog or multiple fixtures totaling 100W	**NE-SLR100-LFP-24VDC** = Solar System for 100W LED fixture. ***** Includes 300W PPV Solar Panel, 180Ah 24VDC LFP Battery system, all mounting hardware, and wiring	**RPM** = Round Pole Mount **SQPM** = Square Pole Mount **FSM** = Free Standing Ground Mount (for flood, billboard, or wall mounting applications)	**GRY** = Grey **BRZ** = Bronze ****** Custom Colors Available

LEAD FREE
RoHS
COMPLIANT

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FIXTURE SPECIFICATIONS Choose Any Neptun LED Fixture

Type :	LED (See product sheet for full specification)
Wattage:	100W
Projected (L70) @ 25°C :	> 100,000 hrs.
Lumens per Watt :	> 100
Input Line Voltage :	24 vdc
Max Line Current :	4.37A

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 :	Polycrystaline - 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.^{2}
Product Warranty :	10 Year
Performance Warranty :	25 Year @ 80% output

Area Lighting

Street Lighting

Facade Lighting

Flood Lighting

Security Lighting
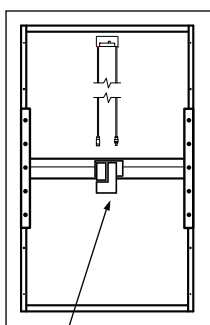
Billboard Lighting

**Pole Mount
(RPM/SPM)**

**Ground Mount
(FSM)**

PPV Solar Panel
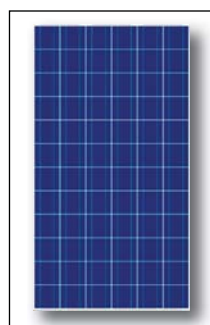
Back View

Adjustable Slip Fitter