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SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ

100W Solar Powered LED Light - (2) 200aH SLA Batteries - Day/Night - 240W Panel - SQ Pole Mount

Product ID: 152479

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

1**SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ Solar Powered LED Flood Light**
1#000000**Type:**1 Solar Powered LED
1Battery Type:1 Sealed Lead Acid
1**Panel Dimensions:**1 27.2"L x 26.2"H x 3.19"D
1**Panel Weight:**1 14 lbs
1**Light Head Weight:**1 8.3 lbs
1**Lamp Wattage:**1 100W
1**Lumens:**1 10,000
1**Luminous Efficacy:**1 90 Lm/W
1**LED Life Expectancy:**1 50,000+ hours
1**Color Temp:**15600K, 4000K or 3500K
1**Color Rendering Index:**1 80
1**Lighting Configuration:**1 Flood Beam
1**Photocell:**1 Adjustable Day/Night Photocell
1**Power Efficiency:**1 >95%
1**Power Factor:**1 0.992
1**Solar Array Wattage:**1 240W
1**Solar Cells:**1 96
1**Panel Materials:**1 Polycrystalline Cells, Tempered Glass, Aluminum Alloy
1**Battery Bank:**1 (2) 200aH SLA
1**Wiring:**1 15`12/2 SOOW Panel to Enclosure - 15` 12/2 SOOW Enclosure to Light
1**Light Materials:**1 Aluminum Housing, Polycarbonate Lens
1**Mounting:**1 Square Pole Mount (7.63" x 7.63") - LED Lamp, 2-piece Bracket Mount - Solar Panel
1**Ambient Operating Temperature:**1 -25°C to +60°C

1**Ratings/Features:**
1Waterproof/Vapor Proof
1ETL Approved for Wet Locations
1IP68 Waterproof
1Two 74aH SLA Batteries
1High Performance in Low Light Conditions
1Under/Over Voltage Protection
1Multiple Mounting Options
1Adjustable Day/Night Photocell

1**Special Orders - Special Requirements**
1Contact us for special requirements

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The SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ from Larson Electronics is a solar powered LED flood light with day/night photocell that provides illumination to remote areas and any other location that lacks a traditional power source. This solar powered LED flood light produces 10,000 lumens of bright LED light while drawing 100 watts from the all weather solar panel. Two 200aH SLA batteries are mounted within a remote mount enclosure to power the light from the energy collected by the solar panel and an adjustable day/night photocell provides automatic operation depending on ambient light levels. The SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ is a versatile lighting solution for a variety of different applications and operator needs.

Light Features: The SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ is a 100 watt solar powered LED light that produces 10,000 lumens of intense white light to provide ample illumination for a variety of tasks. The light assembly consists of eight LEDs paired with specular reflectors to produce a wide light distribution overpowering that of a 1250 watt quartz flood lights. The LED light fixture is designed to withstand demanding conditions and is waterproof, vapor proof, and built to resist the damaging effects of an outdoor environment.

The light head assembly is encased in an aluminum housing that is powder coated for added durability and resistance to corrosion. The housing incorporates integral cooling fins for efficient heat dissipation and increased LED longevity. The LED lamp assembly is protected by a shatterproof polycarbonate lens which is secured to the housing with a waterproof seal. A 1/2" waterproof connector provides a secure and sealed power connection point and rounds out this unit`s weather resistant construction. There is no warm up period, the light can be cycled on and off without any reduction in lamp life, there is no glass or filament to shatter or break, and the solid state LED design provides 50,000 hours of operation.

Day/Night Photocell: The SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ features an integrated day/night photocell that allows for automatic operation of the light when ambient light levels drop below a certain amount such as in low light conditions or at night. This automatic operation of the light adds an additional layer of convenience to this explosion proof LED light fixture. Operators can adjust the photocell sensor to turn the light on at different ambient light levels to accommodate the specific needs of the location where the light is installed. This feature adds even more versatility to this unit.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

Power/Wiring: The SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ is powered via three 100aH SLA batteries that are contained within a remote mount battery enclosure. These batteries are charged via two 80W 18V all weather rated photovolic panels. The panels each features 48 polycrystalline solar cells for a combined 96 cells, measures 30 " in length, 52.4" in width, and 3.19" in depth and offers high performance under low light conditions. The solar panel assembly is fabricated from high transmission tempered glass, polymer back sheets and a powder coated aluminum frame.

The SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ also features an under/over voltage protection solar charge controller. This controller ensures that the batteries stay above 11V which makes sure they do not become useless as a result of them becoming discharged past the point of no return. 15` of SOOW cable connects the solar panel and the battery enclosure to offer operators flexibility in mounting the unit. An additional 15` of SOOW cable connects the LED light head and the remote battery enclosure.

Mounting: During installation, the LED lamp is mounted to the top of a square-tapered utility pole, with a measurement of 7.63" x 7.63". Using a two-piece bracket mount, the solar panel clamps to the side of existing square-tapered utility poles. This facilitates versatile setups, allowing operators to mount the solar panel and the LED lights in two different locations. The change system and control box are mounted at the base of the pole.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message 2sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)







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Product ID: 152479

Export Control Classification Number (ECCN): EAR99

Options:

SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ-Color Temp

Example: SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ-56K

Color Temp	
5600K	-56K
4000K	-40K
3500K	-35K

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**