

SCS-SPK-2X300PNL-SCS-400AL-1X250LTL-120V-N3R-M2

Remote Mount Solar Crane Light Kit - (1) LED Light, (2) Panels, (10) 40aH Batteries - 20' Cord

Product ID: 275922

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.

SCS-SPK-2X300PNL-SCS-400AL-1X250LTL-120V-N3R-M2 Solar Crane Light

Solar Panel Specs

Solar Panel Qty: (2)

Solar Cells: Monocrystalline 6 inches (156.75 x 156.75mm)

Panel Dimensions: 64.9"L x 39.1"W x 1.38"H

Cells Orientation: 60 Cells (6x10)

Ambient Operating Temperature: -40°C to +85°C

Maximum System Voltage: 1000V DC

Nominal Operating Cell Temperature (NOCT): 44°C

Temperature Coefficient of Pmax: - 0.40%/°C

Temperature Coefficient of Voc: - 0.31%/°C

Temperature Coefficient of Isc: 0.06%/°C

Peak Power Watts - PMA_X (WP): 300W

Power Output Tolerance - PMA_X (%): 0 ~ +5

Maximum Power Voltage - VMP (V): 32.2

Maximum Power Current - IMPP (A): 9.33

Open Circuit Voltage - VOC (V): 39.5

Short Circuit Current - ISC (A): 9.84

Fuse Rating: 15A

Module Materials: Anodized Aluminum, Black

Grounding: Grounding Points on Each Corner

Solar Inverter: 350 Watt 120V Output

Mounting: (2) Surface Mount L-bracket Kits for Mounting Solar Panels to Roof or Flat Surfaces

System Runtime: 8 Hours

Ratings/Approvals

NRTL Certified to UL 1703 (Solar Panels)

NRTL Certified to UL Module Fire Performance: Type 2 (Solar Panels)

NEMA 3R Enclosure (Batteries and Charge Controllers)

(2) 300W Solar Panels

(10) 40 aH Lithium-ion Batteries

(1) Charge Controller

Solar Panels Can Withstand 25mm Hail Stones @ 51 mph

8 Hours of Automation w/o Sun to Charge the Batteries

98% Transmission High Purity PMMA Optics

Multiple LED Banks for Heat Dispersion

135 Lumens Per Watt Efficiency

70% Lumen Retention after 80,000 Hours

IP67 Rated Waterproof LED Light

System Protection: Vibration Isolators (Solar Panels, Battery Box and LED Light)

Battery Bank Specs

Dimensions: -

Battery Type: (10) 40aH Lithium-ion Batteries

Total Capacity: 400aH

Total Usable: 400aH - 100% Usable

Materials: Aluminum, Stainless Steel

Enclosure Type: NEMA 3R - Floor Mount

LED Light Specs

Lamp Technology: CREE® LED

Dimensions: 18 "-L x 13"-W x 8.23"-D

Weight: -

Voltage: 120V

Total Watts: 240W

Total Lumens: 32,400 lms

Luminous Efficiency: 135 lm/w

LED Life Expectancy: 80,000 hours

LED Color Temperature: 5000K

Beam Configurations: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood

Optics Efficiency: 98% - PMMA High Transmittance Optics

Ambient Temperature Range: -40°C to +80°C

Materials: Die Cast Aluminum Housing, PMMA Optics

Housing Color: Powder Coated Black

Mounting: Flat Surface Trunnion Mount U-Bracket

Wiring: 20' Cord between LED Light and Battery Box

MPPT Charge Controller Specs

Charge Controller Qty: (1)

Voltage: 12V, 24V or 48V DC

Maximum Battery Current per Unit: 60A

Nominal Maximum Operating Power per Unit: 800W @ 12V, 1600W @ 24V, 3200W @ 48V

Peak Efficiency: 99%

Maximum PV Open Circuit Voltage: 150V DC

Battery Operating Voltage Range: 8-72V DC

Maximum Self-consumption: 2.7W

Transient Surge Protection: 4500W/Port

Charging Algorithm: 4-stage

Charging Stages: Bulk, Absorption, Float, Equalize

Ambient Operating Temp: -40°C to +45°C

Protection: Overload, Short Circuit, High Voltage, High Temperature, Lightning/Transient Surges, Reverse Current @ Night, Remote Battery Sensor (RTS)

Communication Ports: MeterBus, RS-232, EIA-485, Ethernet, EMC-1

Wiring: -

Special Orders - Special Requirements

Contact us for special requirements

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The SCS-SPK-2X300PNL-SCS-400AL-1X250LTL-120V-N3R-M2 Remote Mount Solar Crane Light Kit from Larson Electronics is designed for sustainable energy lighting during crane operations and in outdoor sites.

The system features one LED fixture, 300-watt solar panels, 40 aH lithium-ion batteries @ 400 aH capacity, charge controller and solar inverter. A floor-mount compatible NEMA 3R heavy-duty enclosure protects the batteries and charge controller from outdoor elements.

The SCS-SPK-2X300PNL-SCS-400AL-1X250LTL-120V-N3R-M2 is a solar-powered system that is designed to power one LED fixture for up to 8 hours at night. This system includes two 300-watt solar panels, two surface mounting kits for the solar panels, ten 40 aH lithium-ion batteries, one 60-amp charge controller, NEMA 3R enclosure, 20-foot cord and a 120V 350 watt solar inverter that provides 120V output. The solar charge control kit provides one full day of automation (8 hours) without any sun to charge the batteries. For stable performance, the system includes vibration isolators for the solar panels, battery box and LED light.

LED Light: The LED light fixture produces 32,400 lumens of high intensity light in

outdoor locations. Twenty-four CREE® high output LEDs producing 1,350 lumens each are arranged in rows and paired with PMMA high purity optics to produce a well focused 24° wide spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional optics with 10° spot, 38° narrow flood, 60° flood, and 90° wide flood beam spreads. The spot beams are tightly focused and are designed for high elevation mounting to achieve distance, making spot versions ideal for high mast and spots lighting. The flood beams are designed to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights.

Durability: As well as unparalleled heat control, the GAU-LTL-250W-LED series of LED lights from Larson Electronics offers IP67 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40° Celsius to +80° Celsius, are waterproof, and resist ingress of dust, dirt and humidity. The housings are formed from die cast aluminum and the optics are high transmission PMMA with 98% light transmittance. CREE® LEDs help these units achieve resistance to vibrations and are rated at 70% lumen maintenance after 80,000 hours of use. We recommend these LED lights for use in applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.

Solar Panels: A total of two, 300-watt solar panels are included with the system. The 300-watt, mono crystalline solar panels have a 60-cell orientation and carries a 15A maximum fuse rating. Each unit measures 64.9"L x 39.1"W x 1.38"H. Constructed of anodized aluminum (black), these solar panels are NRTL certified to UL 1703 and UL module fire performance: Type 2. Connections for grounding are available at each corner of the units. Suitable for rugged conditions, the panels can withstand 25mm hail stones traveling at 51 mph.

The solar panel's proven junction box technology has 12 AWG PV wiring and works with transformerless inverters. Locking plug-in connectors offer operators safe and quick connections. Two surface mount L-bracket kits are included, which can be used to mount the solar panels to the roof or flat surfaces.

Battery Bank/Charge Controller: This system is equipped with ten 40aH lithium-ion batteries, for a 400 aH battery pack with 100% usable. Inside the enclosure, operators are provided access to one MPPT charge controller. Capable of operating at 99% peak efficiency, each component features a maximum battery current of 60 amps. The 4-stage charge controllers can handle bulk, absorption, float and equalize charging stages. Protective features include the following: Overload, Short Circuit, High Voltage, High Temperature, Lightning/Transient Surges, Reverse Current @ Night. The controllers are supported by an included remote battery sensor. For connections to the controller, the following communication ports are available: MeterBus, RS-232, EIA-485, Ethernet, EMC-1. The batteries and MPPT charge controllers are housed inside a NEMA 3R rated enclosure, which can be mounted on floors. An included 20-foot cord is available for connection between the light and battery enclosure.

LED Light Mount: The LED light is equipped with a back mount trunnion style bracket that allows the light to be attached to flat surfaces and adjusted through 160° of vertical movement. To adjust the unit after mounting, the user simply loosens the set screws located on either side of the unit, moves it into the desired position, then re-tightens the screws. The base of the mounting trunnion is equipped with several machined slots which allow users to utilize existing mounting holes and slide the unit for precise mount positioning.

Applications: Solar-powered systems, remote locations, alternative energy, sustainable energy systems, solar lighting, portable power, battery-powered systems, rechargeable lighting and more.

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 sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

Frequently Asked Questions (FAQ)

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Product ID: 275922

Export Control Classification Number (ECCN): EAR99

Options:

SCS-SPK-2X300PNL-SCS-400AL-1X250LTL-120V-N3R-M2-Beam Config

Example: SCS-SPK-2X300PNL-SCS-400AL-1X250LTL-120V-N3R-M2-10SP

Beam Config	
10° SPOT	-10SP
25° WIDE SPOT	-25WS
40° NARROW FLOOD	-40NF
60° FLOOD	-60F
90° WIDE FLOOD	-90WF

Links (Click on the below items to view):

- [HigResPic1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)