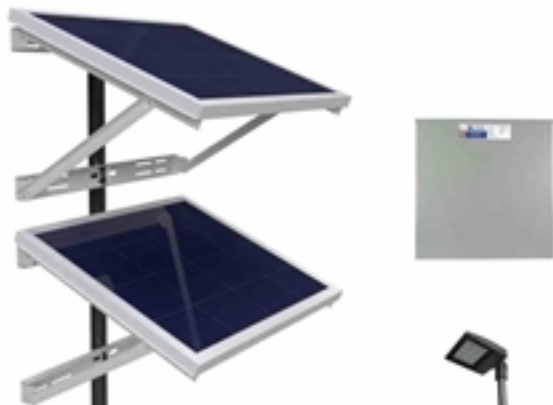


SPK-PLL-150W-2X300PNL-240AL-DNS-M1

150W Solar LED Street Light - 18,000 lms, Day/Night Sensor - (2) 300W Panels, Inverter - Pole Mount

Product ID: 274885

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.

SPK-PLL-150W-2X300PNL-240AL-DNS-M1 Solar General Area LED Light – IP65 Rated, Weatherproof

Solar Panel Specs:

Panels: (2) 300W

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

Dimensions (Per Panel): 64.9"L x 39.1"W x 1.38"H

Cells Orientation (Per Panel): 60 Cells (6x10)

Weight (Per Panel): 41 lbs

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

Maximum System Voltage (Per Panel): 1000V DC

Nominal Operating Cell Temperature (NOCT): 44°C

Temperature Coefficient of Pmax (Per Panel): - 0.40%/°C

Temperature Coefficient of Voc (Per Panel): - 0.31%/°C

Temperature Coefficient of Isc (Per Panel): 0.06%/°C

Peak Power Watts - PMAX (WP) (Per Panel): 300

Power Output Tolerance - PMAX (%) (Per Panel): 0 ~ +5

Maximum Power Voltage - VMP (V) (Per Panel): 32.2

Maximum Power Current - IMPP (A) (Per Panel): 9.33

Open Circuit Voltage - VOC (V) (Per Panel): 39.5

Short Circuit Current - ISC (A) (Per Panel): 9.84

Fuse Rating (Per Panel): 15 A

Effective Projected Area (Light): 1.60 ft²

Effective Projected Area (Panel, each): 21.15 ft²

Quick Summary

Weatherproof LED Light

IP65 Rated LED Light

ETL Listed for Wet Locations (LED Light)

ROHS Compliant

IESNA LM-79 and LM-80 Standards

NRTL Certified and Registered to UL 1703

UL Module Fire Performance: Type 2

CEC

NEC2008 Compliant

IEC 61215/61730

ISO 14001

High Performance Under Low Light Conditions

Locking Connectors for Easy and Fast Connections

Panels Can Withstand 25mm Hail Stones @ 51mph

Mounting Kit Included

Effective Projected Area (Control Box): 4.80 ft²

Module Materials: Anodized Aluminum, Black

Grounding: Grounding Points on Each Corner

Mounting (Per Panel): (4) Pole Clamps w/ Hardware

Inverter: 120 V

Runtime: 10 Hours per Night

Cables: 10' 16/3 Cable w/ Twist-lock Plug Between Light and Control Box, 10' PV Cable Between Control Box and Solar Panels

Control Box Mount: Pole Mount

LED Light Specs:

Lamp Type: LED General Area Light

Input Voltage: 120-277 V AC, 50/60 Hz

Total Watts: 150 Watts

Light Output: 18,000 Lumens

Light Efficacy: 120 lm/W

Color Temp: 3000K, 4000K, 5000K, or 5700K

Color Rendering Index: 80

Beam Options: 10°, 30°, 60°, 110°, Down Light, Type II M, Type III M, Type IV M, Type V S, Tunnel, Wide Flood

Sensor Type: Day/Night

Operating Temp Range: -25°C ~ +60°C

Housing Material: Die-cast Aluminum w/ Polyester Powder Coat Paint

Mount Options: Square Pole, Round Pole, Tenon Pole Top, or Trunnion

Special Orders - Special Requirements

Contact us for special requirements

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The SPK-PLL-150W-2X300PNL-240AL-DNS-M1 from Larson Electronics is a Solar LED Street Light that is a robust, versatile fixture suitable for a wide range of commercial spaces, including parking lots, roadways, outdoor venues and permanent work sites. The 150-watt unit delivers 18,000 lumens during use, with an operating lifespan of over 70,000+ hours. This system includes two 300-watt solar panels, a 120 V inverter and control box.

The SPK-PLL-150W-2X300PNL-240AL-DNS-M1 is recommended for outdoor illumination in remote areas and locations with limited access to infrastructure. This solar-powered LED light is supported by two 300-watt solar panels, a control box and a 120V inverter. Pole mounting components for the solar panels and control box are included for seamless installations.

Solar Panels: This system consists of two 300-watt solar panels. Each panel features a 60-cell module and is ideal for outdoor installations. A 120V inverter is available with the unit. The panels are capable of powering the LED light for up to 10 hours per night.

LED Light: The SPK-PLL-150W-2X300PNL-240AL-DNS-M1 is designed to meet the standards of today's commercial businesses and projects. LED drivers and electrical components found in this luminary are hard mounted to the die-cast housing for optimal heat sinking and operating efficiency. It is compatible with the following input voltages: 120-277V AC. This 150-watt unit emits light at 18,000 lumens with a 120 lumens-per-watt ratio and a CRI rating above 80. A day/night sensor provides automatic operation for the LED light.

With a lifespan of over 70,000+ hours, the LED light features an active heat dissipating system that offers even heat distribution and lower temperature rise. The aluminum fins design also helps to disperse heat and promote a long, reliable LED life. This light comes with the following beam configuration options: 10°, 30°, 60°, 110°, Down Light, Type II M, Type III M, Type IV M, Type V S, Tunnel or Wide Flood. When it comes to mounting, Square Pole, Round Pole or Pole Top options are available. The cast aluminum arm includes bolt guides, allowing for easy positioning of the fixture during installation to pole. Standard single carton packaging of housing, square pole arm and round pole adapter provide contractor-friendly installation.

During operation, the outdoor fixture is suitable for ambient environments, ranging between $-25^{\circ}\text{C} \sim +60^{\circ}\text{C}$. The SPK-PLL-150W-2X300PNL-240AL-DNS-M1 is constructed from one-piece, die-cast aluminum housing with high quality outdoor powder coating finish and shock-resistant lenses. This weatherproof fixture's black housing is sealed from moisture and harmful environmental contaminants, making it extremely resilient against rain, fade and wear. The luminary is ETL listed for wet locations, IP65 rated and ROHS compliant. Inside the fixture, the LEDs comply with IESNA LM-79 and LM-80 standards.

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.

Wiring: The SPK-PLL-150W-2X300PNL-240AL-DNS-M1 comes with 10 feet of 16/3 cable with a twist-lock plug between the LED light and control box. A 10-foot PV cable is available between the control box and solar panels.

Light Mounting: When it comes to mounting the LED light, square pole, round pole, pole top, and trunnion mounting options are available. The round pole mount works for 3-5" OD round poles, and is installed directly to the side of the pole via a U bolt mounting system. The square pole mount works for 3" x 3" thru 5" x 5" square poles, and mounts to the side of square poles via a U bolt mounting system. This square pole mount can also be used as a flat surface mount / wall mount bracket for interior or exterior walls. The pole top / trunnion mount is adjustable for the angle, and can be cinched onto 1.5-2" OD poles (nominal OD up to 2-3/8"). The trunnion / U-bracket mount provides the most flexibility in terms of adjustment, allowing operators to rotate the mounting bracket to reach the desired orientation, then adjust the light fixture within the trunnion to reach the desired angle for the light distribution. This mount commonly is mounted to walls, flat surfaces, mast heads, and square tube poles. The cast aluminum arm includes bolt guides, allowing for easy positioning of the fixture during installation to pole. Standard single carton packaging of housing, and the mounts provide contractor-friendly installation.

Solar Panel Mounting: Both solar panels come with a mounting kit that allows the units to be secured on poles measuring 2" - 6" in diameter. Each mounting kit includes four pole clamps and hardware. Mounting rails attach to the back of the solar panels for stability. Pole clamps are used to secure the railing components holding the solar panels to the pole. Operators can adjust the angle of the panel by moving the bottom pole clamp up and down until the desired position is achieved. After adjustment, simply tighten the bolts and clamps to complete the installation. The panels can either be mounted on the same pole together or on separate poles. The control box is compatible with pole mounting requirements.

Applications: Parking lots, roadways, street lighting, car dealerships, stadium, tunnel lighting, outdoor sports areas, campuses, parks, advertising light, commercial spaces, permanent work sites, concert venues and other applications that require brilliant illumination for extended periods of time.

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)









SPK-PLL-150W-2X300PNL-240AL-DNS-M1

Product ID: 274885

Export Control Classification Number (ECCN): EAR99

Options:

SPK-PLL-150W-2X300PNL-240AL-DNS-M1-Mount-Beam Config-Color Temp

Example: SPK-PLL-150W-2X300PNL-240AL-DNS-M1-SQP-10DB-30K

Mount	
SQUARE POLE	-SQP
ROUND POLE	-RDP
POLE TOP TENON	-PT
TRUNNION	-TRN

Beam Config	
10°	-10DB
30°	-30DB
60°	-60DB
110°	-110DB
DOWN LIGHT	-DL
TYPE II M	-T2M
TYPE III M	-T3M
TYPE IV M	-T4M
TYPE V S	-T5S
TUNNEL	-TNL
WIDE FLOOD	-WF

Color Temp	
3000K	-30K
4000K	-40K
5000K	-50K
5700K	-57K

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