Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

SPLEDXL-2X-LEDLP-700-KNL-20C

70W Solar Powered LED Light - 6800 lms - (1) 300W Panel, (4) 40aH Li-ion Batteries

Product ID: 272285

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.

SPLEDXL-2X-LEDLP-700-KNL-20C Solar Powered LED Light

Solar Panel/Battery Specs:

Panel Qty: (1)
Solar Panel Watts: 300W
Operation: 24/7, On/Off, Day/Night, Motion, or Flying Leads
Battery: (4) 40aH Lithium-ion Batteries, 160aH Usable
Charging Time: 5 Hours
Runtime: 12 Hours
Panel Mounting: Surface or Post
Wiring: 10` SOOW Cable w/ Deutsch 2-pin Disconnect Between Solar Panels and Charge Control Box

LED Light Specs:

Lamp Technology: LED
Dimensions: -
Weight: -
Watts: 70W
Lumens: 6,800 lms
Luminous Efficacy: 97.14 lm/w
Lamp Life Expectancy: 50,000 Hours
Color Temperature: 5,000K

Quick Summary

Replacement for 250W Metal Halide Fixtures
Listed for Wet Locations - LED Light
100% Solar - Requires no External Power
IP65 Rated LED Light
50,000+ Hour LED Lamp Life
Surface or Post Mount Solar Panel
Remote Mount LED Light

CRI: 80

Beam Type: Flood (NEMA 7Hx7V)

Lighting Configuration: -

Power Efficiency: -

Power Factor: -

Amps: -

Ambient Operating Temperature: -30°C to +45°C

Housing Materials: Aluminum

Housing Color: Bronze

Lens Materials: Polycarbonate

Mounting: 1/2" Knuckle Mount

Wiring: 10` SOOW Cable w/ Deutsch 2-pin Disconnect Between Charge Control Box and LED Light

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

Made in the USA

The SPLEDXL-2X-LEDLP-700-KNL-20C from Larson Electronics is a Solar Powered LED Light that is an ideal lighting solution for remote areas and standalone applications where connection to external power is either impractical or unavailable. This 70-watt solar powered LED light is offered in a floodlight beam pattern and several different operating configurations, making it ideal for remote applications and replacing 250W metal halide lamps. A 1/2" knuckle mount allows the LED lamp to be secured at a separate location from the panel.

This solar LED light is powered by four, 40aH lithium-ion batteries that are recharged by a 300-watt solar panel. Light output comes from a 70-watt LED lamp that produces 6,800 lumens of bright light. The long lasting LEDs have a 50,000-hour rated lifespan with a CRI of 80 and color temperature of 5,000K. The flood beam is NEMA 7Hx7V, a very wide spread ideal for general or accent lighting. This LED light is designed to replace 250W metal halide fixtures.

Durability: This LED flood light is IP65 rated for wet locations with housing constructed of rugged aluminum that is powder coated with a dark bronze finish, for additional corrosion protection. The fixture is rated IP65 for ingress protection against direct exposure to water jets from all directions. The unit operates in extreme temperatures from -30ºC to 45ºC and includes an unbreakable polycarbonate lens that protects the LEDS against the buildup or intrusion of dust, dirt and humidity.

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.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units contain advanced drivers which use pulse width modulation to control heat buildup rather than simple voltage regulators which are typically harsh on sensitive electronics and can contribute to early LED failure. These units automatically sense the temperature of each LED and adjust the energy frequency or "duty cycle" accordingly to maintain heat levels within acceptable ranges. This system in essence flashes current at an extremely fast on and off rate to each LED based upon the LED`s core temperature. This flash rate is too fast to detect with the

human eye, but provides precise control of the current flowing to each LED and thus the heat it generates. This allows the LEDs to be driven at up to 100% capacity without overheating or visible loss of light output. The LEDs are always driven at the same voltage but the duty cycle, however, is changed to alter how long the LEDs are actually on or off. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 50,000 hours.



Solar Panels: The 300-watt solar panel is configured to operate non-stop 24/7, day/night with photocell, motion sensor for security purposes, on/off switch for manual operation, or flying leads for operators to connect to user provided external switches. The day/night and motion sensor is programmed to activate the solar panel in the evening and to shut it off during the day, activating the LED light when ambient lighting falls below 1 lux. The motion sensor will activate the panel upon detecting movement within range of the panel.
The light runs for 12 hours when the battery is fully charged. The lithium-ion battery pack is contained within the solar panel, not the light. Charging time for the battery is 5 hours when exposed to direct sunlight. As with all solar powered equipment, charging time is affected by the amount of available ambient light. When ambient light levels drop below a certain level, such as on cloudy days, the unit will not recharge. The included 10` SOOW cord with Deutsch 2-pin disconnect that runs between the solar panel and the light offers operators convenience and flexibility during the mounting process.

Mounting



Round Pole



Square Pole



Surface

Mounting: The LED light is mounted with a 1/2" knuckle mount made of die-cast aluminum, which provides operators with mounting flexibility in a variety of locations. Larson Electronics has further upgraded the options available with this light. A ten foot extension cord connects the solar panel to the LED light, allowing the light to be mounted separately from the panel. This means the solar panel can be mounted in direct sunlight while the light is mounted in a workspace. The cord between the light and panel ends in Deutsch connectors, allowing an optional longer extension cord to be attached, increasing the distance the light can be installed from the panel. Optional longer extension cords are available at additional cost. Larson Electronics can also configure this light for special requirements including different lights and larger batteries.
Suggested uses for this light include both commercial and industrial applications as well as consumer based installations. This light is ideal for boat docks, remote locations that rely on batteries for power, exterior outbuilding lighting, hunting cabins, parking areas, sign or entryway illumination, driveway lighting and anywhere a standalone lighting solution is needed.

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.

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Frequently Asked Questions (FAQ)

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Product ID: 272285

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

SPLEDXL-2X-LEDLP-700-KNL-20C-Operation

Example: SPLEDXL-2X-LEDLP-700-KNL-20C-24.7

Operation	
24/7	-24.7
ON/OFF	-On.Off
DAY/NIGHT	-Day.Night
EXTERNAL	-Leads
MOTION	-Motion

Links (Click on the below items to view):

- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**