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SPLED-1X10WRE-DNS-AT-M2

Solar Powered 10 Watt LED Light - 3 Hour Lighting Cycle - Day/Night Photocell & Automatic Timer

Product ID: 274055

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.

SPLED-1X10WRE-DNS-AT-M2 Solar Powered LED Light

Operation: Day/Night Sensor w/ Automatic Timer
Panel Dimensions: 28"-W x 24.732"-D x 28.459"-H
Lamp Dimensions: 3"-W x 4.5"-D x 3.8"-H
Panel Wattage: 30
Light Wattage: 10
Panel Mounting: Surface or Post
Lamp Mounting: Trunnion / U-Bracket - Mounted to panel or external mount
Lamp Configuration: 10° Spot, 20° Wide Spot or 60° Flood
Lumens: 860
LED Color Temperature: 6000K
LED Lamp Life: 50,000+ Hours
Battery: (1) 8aH sealed lead acid batteries
Charging Time: 5 Hours
Runtime: 12 Hours
Wiring: 6` SOOW cable w/ Deutsch 2-pin disconnect

Features/Quick Summary

High Output LED Light Source
100% Solar - Requires no External Power
IP68 Waterproof LED Light Assembly
50,000+ Hour LED Lamp Life
Multiple Configuration Available
Panel Mount or External Mount Light
Surface or Post Mount Panel

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The SPLED-1X10WRE-DNS-AT-M2 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 rechargeable solar powered LED light is offered in a spotlight or floodlight beam pattern and several different operating configurations, making it ideal for remote applications. The SPLED-1X10WRE-DNS-AT-M2 operates on a 3 hour lighting cycle that is triggered when darkness is detected.

This solar powered LED light is offered in several different configurations and powered by one 8aH sealed lead acid battery that is recharged by a 30 watt solar panel. Light output comes from a 10 watt LED lamp that produces 860 lumens. This solar panel is configured to operate on a 3 hour lighting cycle. When the day/night sensor detects light levels below 3 footcandles it will trigger the automatic timer which turns on the light for 3 hours before shutting it off. Once it shuts off, the unit waits for the sensor to detect light again before repeating the lighting cycle.

The light runs for 12 hours when the battery is fully charged. The sealed lead acid 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. Mounting options include the ability to attach the fixture to flat surfaces such as walls or round/square pole mounting such as on flagpoles or structure supports. The included 6` 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.

The LEDP WRE series LED lights are waterproof to 3 meters, sealed against intrusion by dust and dirt and very ruggedly constructed to withstand the most demanding environments, conditions and applications. An integral Pulse Width Modulation controller, small profile, low power requirements, high durability and versatile mounting makes these LED lights ideal for a wide array of applications including but not limited to: military, industrial manufacturing, machine visioning, security and law enforcement, boating, off-roading and commercial structure illumination.

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.



Click Image to Enlarge



Click Image to Enlarge



Click Image to Enlarge







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.

Durability: As well as unparalleled heat control, the LEDP WRE series of LED lights from Larson Electronics also offer IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40° Celsius to +85° Celsius, are waterproof to three meters and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum and the lenses are unbreakable polycarbonate. The CREE XLamp XM-L® LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.

Larson Electronics has further upgraded the options available with this light. A six 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. Alternatively, the light can be mounted directly to the panel. 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)

SPLED-1X10WRE-DNS-AT-M2
Product ID: 274055

Warranty: 36 Months

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:
SPLED-1X10WRE-DNS-AT-M2-Beam Config
Example: SPLED-1X10WRE-DNS-AT-M2-SP

Beam Config	
10° SPOT	-SP
20° WIDE SPOT	-WS
60° FLOOD	-FL

Links (Click on the below items to view):

- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**