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LED25WRE-RPS.16AH-WR-M

25W Rechargeable LED Spotlight - 1000' Beam - 16aH Battery - 12 Hours - Wireless - Magnetic Mount

Product ID: 152300

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.

LED25WRE-RPS.16AH-WR-M LED Light

Lamp Type: CREE LED
Dimensions: 6"L x 4.5"W x 9.5"H
Weight: -
Voltage: -
Watts: 25
Lumens: 2,750
LED Lamp Life Expectancy: 50,000+ Hours
Color Temp: 6,000K
Lighting Configuration: Combination 10° Spot & 60° Flood
Spot Beam: 1000` L
LED Drive %: 90%
Amps: 2.08 @ 12V DC - 1.04 @ 24V DC
Ambient Operating Temp: -40C to +85C
Materials: Aluminum Housing, Polycarbonate Lens
Mounting: Magnetic Mount via (2) 200 lbs Grip Magnets
Battery: 16aH, Lithium-ion
Battery Run Time: 12 hrs
Battery Charge Time: 2 hrs
Wireless Remote Frequency: 433 MHz

Ratings/Approvals

Fast Average Current Control
Programmable Off-time Switching
Linear Dimming Input
75` Wireless Remote

Special Orders - Special Requirements

Contact us for special requirements

Wireless Remote Distance: 75`

Charger Type: Wall

Charger Voltage: 120V or 240V

Toll Free: 1-800-369-6671

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The LED25WRE-RPS.16AH-WR-M Rechargeable LED Spotlight is ideal for a wide variety of uses including vehicles, military, law enforcement and industrial manufacturing applications. This 25-watt ultra compact LED light produces 2,750 lumens capable of reaching targets up to 1,000 feet away. The magnetic-mount unit is powered by a rechargeable 16aH lithium-ion battery for up to 12 hours and features wireless remote functionality.

The LED25WRE-RPS.16AH-WR-M is a wireless, rechargeable LED spotlight with powerful magnets for seamless mounting. This 25-watt unit produces 2,750 lumens of bright light while drawing less than 2.25 amps from a 12 volt electrical system. A single CREE LED is combined with a high output reflector to produce a narrow 10° spread spot beam approximately 1000' long combined with a 60° flood beam. This spot/flood beam combination provides both distance and width from a single light source. The LED lamp is ultra compact with 4.5" OD lamp head, making it ideal for applications where electrical power and mounting space is at a premium.

The portable LED spotlight is powered by a rechargeable 16aH lithium-ion battery. The battery has a 12 hour runtime and requires 2 hours to fully charge. A wireless control board can be found inside the unit for wireless remote functions. Remote operation is provided by one wireless handheld remote controller that operates over a radio frequency of 433 MHz. This remote includes an internal 12 volt battery rated at 1 year of operation and a single red LED to indicate remote control activity. The remote controller has a range of up to 75 feet and will operate through walls, within structures, and in vehicles. The remote is constructed of polycarbonate with rubber push pad buttons for weatherproof durability and can be user programmed to operate one or several lights simultaneously. Remotes are 3 inches long by 2 inches wide by 3/8 inch thick.



This photo shows an open parking lot lit only by ambient light at approximately 9:00 pm.

Click Photo to Enlarge



This photo shows the LED25WRE-RPS.16AH-WR-M in spot configuration. The building in the distance is 300` away, well illuminated by the LED spotlight.

Click Photo 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 offers IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40 degrees Celsius to 85 degrees 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 LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000+ hours of use.
Mounting/Charging: The LED25WRE-RPS.16AH-WR-M is equipped with two, 200 lbs grip magnets, which are located at the bottom of the aluminum box, for versatile magnetic mounting applications. Operators can mount the rechargeable LED spotlight without tools and/or with gloved hands. Each unit comes with a charger for recharging via mainstream wall outlets. Voltage options for the charger includes 120V or 240V.
Applications: Outdoor illumination, remote work sites, law enforcement, emergency camps, checkpoints, security, monitoring, inspections, industrial sites, roadside projects, off-roading, fishing, hunting, ATVs 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.



Click Photo to Enlarge

CONDITIONS

Vin min (V) = 9	**toff (us) = 2.9**
Vin nom (V) = 12	**R1 (kohm) = 50.2**
Vin max (V) = 32	**L1 (uH) = 3.0**
Vo min (V) = 6.5	**L-Pk (A) = 2.9**
Vo nom (V) = 6.8	**L-rms (A) = 2.9**
Vo max (V) = 7	**Ipk (A) = 2.5**
I-LED (A) = 2.2	**R2 (ohm) = 0.10**
Efficiency = .85	**I-FET (A) = 2.2**
fsw nom (kHz) = 150	**fs min (kHz) = 77**
Ts nom (us) = 6.666667	**fs max (kHz) = 301**
Base frequency-	= 36~37Khz @ 12V
Amplitude of pulse width-	= 27Ms
Outside: External dimmer-	= 500Hz
Inside : Current sensing from-	77KHz at 12V to 300KHz at 50V

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Frequently Asked Questions (FAQ)

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LED25WRE-RPS.16AH-WR-M

Product ID: 152300

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

Options:

LED25WRE-RPS.16AH-WR-M-Voltage

Example: LED25WRE-RPS.16AH-WR-M-120V

Voltage	
120V	-120V
240V	-240V

Links (Click on the below items to view):

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