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SPG-LM20-4.8K-1600AH-ISDG.11KW-120.240V-2XLTL-INV-BC

4.8KW Solar Powered Security System - 20' Push-up Mast, (2) LED Lights, (20) 240W Panels, 11kW Diesel Gen - 1600 aH LFP Battery Bank, 120/240V Inverter

Product ID: 320774

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.

SPG-LM25-4.8K-1600AH-ISDG.11KW-120.240V-2XLTL-INV-BC Trailer Mounted Solar Panels

Light Mast Specs

Tower Length: 20'

Materials: Aluminum

Finish: -

Operation: Air Compressor

Equipment Mounting: T-Head Mounting Bracket at Top of Mast

Solar Specs

Panel Qty: (20)

Total Panel Watts: 4,800W

Single-Panel Watts: 240W

Method of Deployment: Manual

System Voltage: 24 Volts

Battery Capacity: 1600aH @ 24V - LFP Batteries

Battery Charger: 40A

Outlets: (2) 50A Twist [120/240V], (4) 20A [120V]

Solar Inverter: 120/240V

Generator: 11kW Diesel

Quick Summary

Fully Solar, No Fuel Needed

LED Floodlight Specs
Lamp Quantity: (2)
Lamp Type: CREE LED
Single-lamp Dimensions: W-9" D-3.25" H-6.5"
Voltage: -
Total Watts: 120W
Single-lamp Watts: 60W
Total Lumens: 10,800
Single-lamp Lumens: 5400
Luminous Efficacy: 90 lm/w
LED Life Expectancy: 50,000+ hours
Color Temp: 5600K
Color Rendering Index: 80
Beam Angle: 60° Vertical, 75° Horizontal
Lighting Configuration: Flood Beam
Power Efficiency: >95%
Power Factor: 0.992
Sensor Type: Motion Sensor
Ambient Temp Range: -50°C to +70°
Housing Material: Cast Aluminum
Lens Material: Polycarbonate
Mounting: Tower Mount w/ Adjustable Trunnion U-Bracket
Wiring: -

Trailer Specs
Materials: -
Transport Dimensions: 8'-W x 23' 6"-L x 10' 6"-H
Deployed Dimensions: 12' 6"-W x 22'-L x 21'-H
Dry Weight: 8,450 lbs
Axle: -
Suspension: -
Outriggers: -
Wheels: -
Tires: -
Weight: -
Shipping: Common Freight
Shipping Dimensions: -
Shipping Weight: -
Options: Length- Mounting-Fixtures/ Call Us for Special Requirements

Special Orders - Special Requirements
Contact us for special requirements

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The SPG-LM20-4.8K-1600AH-ISDG.11KW-120.240V-2XLTL-INV-BC from Larson Electronics is a Solar Powered System that is designed for outdoor and remote locations. This unit features twenty, 240W solar panels, 1600 aH LFP battery bank and an 11kW diesel generator. Operators can access a 20' push-up mast with two LED lights for jobsite illuminaton.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO MASTS OR TRAILERS
This solar powered security system includes a 20' push-up mast, two LED lights, 4800-watt solar panels, LFP battery bank, accessible outlets, solar inverter and an 11kW diesel generator. All system components are secured on a trailer for seamless mobility.
Light Mast/Equipment Tower: The SPG-LM20-4.8K-1600AH-ISDG.11KW-120.240V-2XLTL-INV-BC features a 20' pneumatic light tower with a T-Head mounting bracket mounted at the top. The mounting bracket holds two LED flood lights. The aluminum mast is raised and lowered to its full height via an on-board air compressor. The compressor is operated via controls mounted on the inside of the unit's access door. Operators make sure the control systems switch is powered on and the mast drain valve is fully closed by turning it completely clockwise before toggling on the air compressor switch. Once the compressor switch is turned on, it will automatically begin to raise the mast and mounted equipment to

a height of 20'. The mast lowering process is just as simple. Operators simply confirm that the air compressor power switch is in the off position before opening the mast drain valve by turning it completely counterclockwise. The mast will lower itself back to its lowest position. Once that occurs, operators re-close the mast drain valve completely.

LED Flood Lights: This solar-powered tower contains two LED flood lights for outdoor illumination. Included motion sensors automatically activate the units upon sensing movement in the area at night. The light assembly consists of six LEDs paired with high purity specular optics to produce a wide light distribution overpowering that of a 500 watt quartz flood lights. This light is constructed of three angled boards that helps provide a wider spread. Instead of the light only shining forward, the center board is concentrated to go straight out while the boards on the side are 45° offset. The LED lamps are designed to withstand demanding conditions and are waterproof, vapor proof, and built to resist the damaging effects of an outdoor environment.

The lamps are protected by a waterproof aluminum housing that is powder coated for added durability and resistance to corrosion. The housing incorporates integral cooling fins for efficient heat dissipation and increased LED longevity. The LED lamp assemblies are protected by a shatterproof polycarbonate lens, which is secured to the housing with a waterproof seal. A 1/2" waterproof connector provides a secure and sealed power connection point and rounds out this unit's weather-resistant construction. An optional glare shield it shipped with the lights. Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. 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 applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

Solar Panel Assembly: This unit is comprised of twenty, 240-watt weatherproof solar panels at 4,800 watts total. The panels can be deployed and adjusted manually in order to maximize sunlight intake. For backup power, the system features an 11kW diesel generator.

Battery/Outlets: The LFP battery bank offers 1,600aH usable capacity at 24V and comes with a 40-amp battery charger. Equipped with a 120/240V solar inverter, operators may access the following receptacles on the system: (2) 50-amp twist [120/240V] and (4) 20-amp [120V].

Component Control Center: All the electrical components are encapsulated in a NEMA 3R job box that is bolted to the trailer. Since most of these components are not rated for high heat, our component cooling system circulates air within the job box at 1400 CFM when the ambient temperature exceeds 90 degrees Fahrenheit.

Transport: All system components are secured on a heavy-duty trailer. This trailer measures 8'-W x 23' 6"-L x 10' 6"-H. At full deployment, the unit measures 12' 6"-W x 22'-L x 21'-H. This system weighs approximately 8,450 lbs.

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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