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WAL-SL-MJ-10-LED-TP-12.3-120V

100' Heavy Duty Industrial String Light - 10 LED Work Lamps - 120V - 12/3 SOOW Cable - TP Screws

Product ID: 267141

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.

WAL-SL-MJ-10-LED-TP-12.3-120V 100` Heavy Duty Industrial String Light

Lamp Technology: LED
Lamp Quantity: (10)
Dimensions: -
Weight: -
Voltage: 120V
Single-lamp Watts: 10W
Total Watts: 100W
Single-lamp Lumens: 1,300
Total Lumens: 13,000
Luminous Efficiency: -
Expected Lifespan: 50,000+ Hours
LED Color Temperature: -
CRI: -
Lamp Type: -
Lamp Base: -
Replacement Lamp: -
Beam Angle: 360°
Light Configuration: Flood
Power Efficiency: -
Power Factor: -
Amps: 0.83A @ 120V
Ambient Temperature Range: -
Materials: Aluminum

Features

Lower Amp Draw
Wet Area Approved
High Output 10 Watt LED Lamps
Daisy Chain Connection (End to End)
100` per String - Max Spanning 110`
13,000 Lumens of Total Illumination
Tamper Proof Screws

Screws: Tamper Proof
Mounting: Eyelet for hook mounting
Wiring: 10` 12/3 SOOW Cable Per Unit, 5` Whips
Total Length: 110`
Cord Caps: 5-15P / 5-15C, 5-20P / 5-20C, L5-15P / L5-15C, or L5-20P / L5-20C

Shipping Dimensions: 36" x 36" x 36"

Shipping Weight: 54 lbs

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

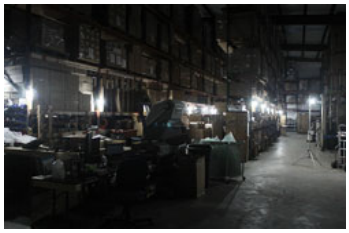
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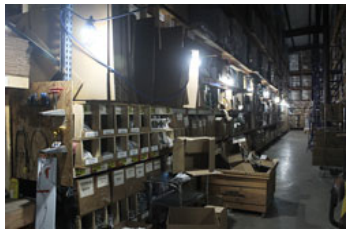
The Larson Electronics WAL-SL-MJ-10-LED-TP-12.3-120V Heavy Duty Industrial String Light is designed for high output illumination and daisy chain connections across a total length of 100` away from the power source. The ten, 10-watt LED lamps on this heavy duty industrial string light set provide more and higher quality light than 100 wattage incandescent lights while creating less heat and using less power. Equipped with tamper proof screws, this LED light stringer operates on 120V AC and provides operators with a temporary work light solution for tunnels and underpasses.

This temporary tunnel string light consists of 10 industrial grade LED lamps with 10` of 12/3 SOOW cable between each unit, stretching a total of 100` in length. This temporary LED string light is connected to a 120V power source via an integrated 5` line-in cable. Each mason jar lamp is equipped with a high output LED bulb which delivers more light output than a 100 watt incandescent. The 10 watt LED bulb draws 10% the electrical power of a standard 100 watt bulb, making it suitable for standard voltage and low voltage applications. Each LED light screws into an E26 lamp socket and the bulb is enclosed in a bird cage style metal guard.

Ten high output A19 style LED lamps producing 1,300 lumens per lamp provide a total of 13,000 lumens of bright white illumination. Each lamp housing is constructed from light weight aluminum, fitted with an impact and shatter resistant polycarbonate diffuser and protected by tamper proof screws (mounting brackets and globe guards). These LED light bulbs provide additional safety measures and time savings, given the low heat production and that it does not require replacing for 50,000 hours. Since the LED bulb uses solid state technology, the vibration (dropping, etc.) that degrades conventional incandescent bulbs is not an issue with these LED bulbs.


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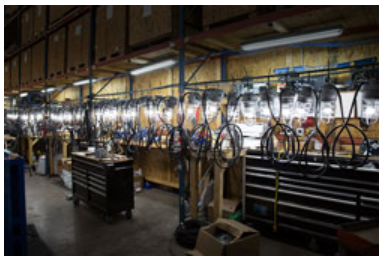

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LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, 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.
Safety within the workplace is another benefit of LED work lights and temporary lighting. All light sources produce heat. With traditional work lamps, such as incandescent and halogen light sources, the lamp reaches high surface temperatures. These surface temperatures introduce a burn risk to anyone to anyone that allows prolonged skin contact with the light source, as well as a fire hazard if a flammable material is accidentally set too close to the light source for an extended period of time. While LED fixtures do still produce heat, they are designed with heat sinks to properly disperse the heat. Each LED bulb is engineered to disperse and expel this heat quickly and efficiently, keeping the lamp cooler than traditional light sources. This LED work light operates at a lower surface temperature than a comparable model with traditional light source, and thus does not present a significant burn risk if an operator or bystander accidentally brushed up against an exposed lamp, and reduce the fire hazard should they fixture accidentally come in contact with a flammable material for a short period of time. This significantly increases the safety within the work environment.



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Each light housing is constructed of light weight aluminum and is fitted with an aluminum mesh guard enclosure that provides protection for the enclosed bulb. A hook eyelet on the back of each lamp housing allows operators to hang these lights overhead. Utilizing energy efficient LED lamps, operators are able to provide more light coverage from the same amp draw, or lower the amp draw using the same amount LED lamps as incandescent. Each LED light has an effective range that approximately covers a 5-8` radius with 10-15 foot candles of light. Unlike fragile incandescent and compact fluorescent lamps that are made from glass, these LED bulbs are extremely durable and can live up to the abuse of harsh working conditions. With a lamp life of 50,000 hours, operators are not constantly having to replace burnt out or broken lamps, reducing down time and lowering the amount of spare lamps required at the job site.
Multiple stringer sections can daisy chained together via 5` whips terminated in twist lock connectors, with a maximum of fifteen stringers daisy chained together of this 120V unit.

Stringer Energy Consumption Comparison (Single Stringer)

	Incandescent	CFL	LED
Wattage (single unit)	100 watts	26 watts	10 watts
Wattage (total)	2000 watts	520 watts	200 watts
Amp Draw @ 480V AC	4.16 amps	1.08 amps	0.42 amps
Lamp Life Expectancy	1,500 hours	8,000 hours	50,000 hours
Color Temperature	2800K	4300K	6000K
Operation cost per day (12hs/day @ 12c/kWh)	$2.88	$0.75	$0.29
Operation cost per month (12hs/day @ 12c/kWh)	$86.40	$22.46	$8.64
Operation cost per year	$1051.20	$273.31	$105.12

(12hs/day @ 12c/kWh)

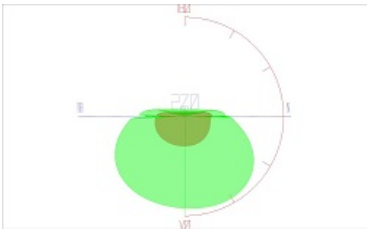
Stringer Energy Consumption Comparison (Fifteen Stringer)

	Incandescent	Halogen	LED
Wattage (Single Lamp)	100 watts	26 watts	10 watts
Wattage (6 Stringers Total)	12,000 watts	3,120 watts	1,200 watts
Amp Draw @ 480V AC	25 amps	6.5 amps	2.5 amps
Operation cost per day (12hs/day @ 12c/kWh)	$17.28	$4.49	$1.73
Operation cost per month (12hs/day @ 12c/kWh)	$518.40	$134.78	$51.84
Operation cost per year (12hs/day @ 12c/kWh)	$6,307.20	$1,639.87	$630.72

Please note: This string light is not capable of supporting 100 watt lamps nor 26 watt lamps due to cable restriction and overloading the cable. These comparison charts are for references only. To be able to achieve the same results with traditional light sources, higher amp capacity cable would be required or shorter runs per string light assembly. To be able to achieve the same distance, multiple power sources would be required for the total length of the area that requires being illuminated.

Also note that for incandescent lamps, due to voltage loss over distance, the light from start to end of the single string light, with the lamps at the tail end of the stringer being nearly half the light output as the ones at the head end of the string light by the power source. For compact fluorescent lamps, this would require bulbs with internal ballasts that are universal voltage and capable of auto sensing voltage and adjusting accordingly. Otherwise the lamps will stop operating properly or fail prematurely after a certain distance due to voltage drop

The LED string lights from Larson Electronics have been designed to overcome the above difficulties and faults with traditional lighting. This allows operators to run a single strand of string lights within the work area and span long distances from a single power source and work around voltage drop without sacrificing light output. This feat would not be possible with above traditional light sources without increasing cable size, weight of the unit, number of power sources required to span the same distance, while providing more light output within the work space.



Click Photo to Enlarge

Each high output LED lamp produces more light output than standard 100 watt rough serve lamps. The 3D polar distribution curve displays a standard 100 watt rough service incandescent lamp (red) in comparison to the LED-A19-10-E26-SML high output LED lamp (green) that is used in this work area string light. The LED lamp visible covers more than twice ground than the 100 watt rough service lamp, and the higher CRI of the LED lamp provides a better working environment. The cool white color temperature allows operators to see fine details that would not be clearly visible incandescent lighting.

These LED lamps are suitable for wet areas, extremely long lived, resistant to damage from impacts and vibrations, and consume far less energy than standard lamps. This tunnel string light is configured to operate with 120 volt electrical current. The LED lamps provide more and better quality illumination than 100 watt incandescent string lights without the high heat and fragile glass construction of traditional lamps. With the low energy requirements of LED lamps, mile long assembly units are now physically possible.

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: 267141

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

WAL-SL-MJ-10-LED-TP-12.3-120V-Cord Cap

Example: WAL-SL-MJ-10-LED-TP-12.3-120V-5.15

Cord Cap	
5-15P / 5-15C	-5.15
5-20P / 5-20C	-5.20
L5-15P / L5-15C	-L5.15
L5-20P / L5-20C	-L5.20

Links (Click on the below items to view):

- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**