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

LE-8900-CT

48W LED Remote Control Spotlight - 12-24V DC - 4320 Lumens - Wireless Remote - Magnetic & Permanent Mount Capable

Product ID: 48459



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.

LE-8900-CT Motorized Remote Control 48W LED Spotlight

Lamp Type: LED
Dimensions: 9.29"-W x 7.87"-D x 9.60"-H
Weight: 9.7 lb
Total Watts: 48 Watts
Voltage: 10-30 V DC
Lighting Configuration: Spotlight
Amps: 3.25 A @ 12 V DC & 1.63 A @ 24 V DC
Mounting: Permanent Mount or Magnetic Mount - Both Included
Total Lumens: 4,320
Lamp Color Temperature: 6000 Kelvin
Weather Rating: IP65
Movement Range: Infinite 360° Horizontal Rotation; 38° Vertical Tilt Up & 71° Vertical Tilt Down
Remote Control: Single Wireless, Handheld Radio Control - IP67 Rated - On/Off, Directional Buttons, Flash Mode
Housing Material: Magnesium Alloy
Lens Material: Polycarbonate

Features

48 Watt, 4,320 Lumen
IP65 Rated
12-24 V DC Operation
IP67 Rated Remote Control, 100' Range

Special Orders - Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
Intl: 1-214-616-6180
E-mail:sales@larsonelectronics.com

The LE-8900-CT from Larson Electronics is a 48 Watt Motorized LED Spotlight that operates with a handheld wireless remote control. This particular model is available in black and is magnetically mounted. It outputs a spot beam with an effective working length of 1,312 feet and produces 4,320 lumens of bright, white light.

The LE-8900-CT is designed for use in all weather conditions and produces 4,320 lumens of intense light output. These units feature remote control operation that

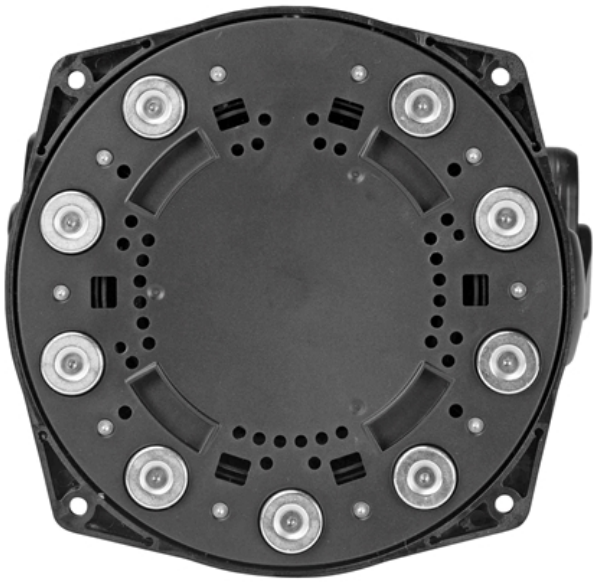
allows users to rotate the light 360 degrees horizontally with no stopping, adjust vertical tilt up 38 degrees, and adjust vertical tilt down 71 degrees. Remote operation is provided by one handheld IP67 rated wireless remote control. The remote control has a range of up to 100 feet and will operate through walls, within structures, and in vehicles. The remote is constructed of polycarbonate with rubber push pad buttons for IP67 weatherproof durability.
Remote Operation: Remote control functions include on/off, flash mode, and 4 directional buttons which control up, down, left, and right movement. The light will continue movement as long as the buttons are pressed. Releasing the buttons stops movement and holds the light in position.

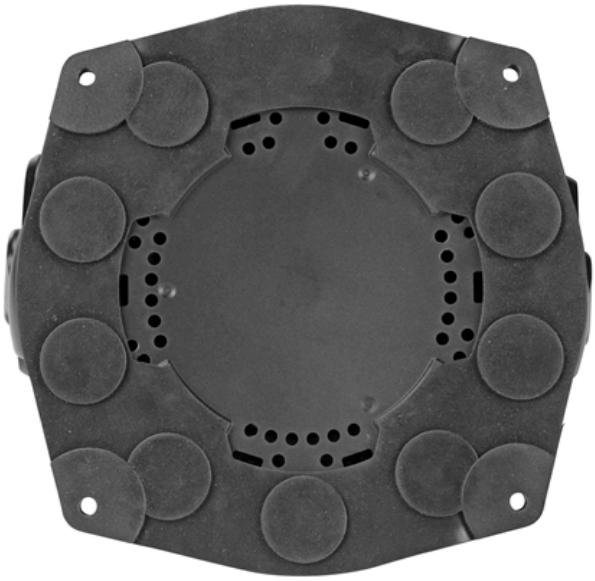
Durability: The LE-8900-CT features an IP65 rating is designed for hunting and demanding outdoor use with a weather resistant housing constructed of high quality thermoplastic that is heat resistant, impact resistant, UV resistant, and able to withstand rugged use and abusive conditions. This particular light is black in color which makes it ideal for docks and buildings where an attractive appearance is desired.
Mounting: The light can be either magnetically mounted or permanently mounted depending on the user`s desired application and mounting surface.
Power: This light operates on 12-24 V DC. It draws 3.25 amps at 12 V DC and draws 1.63 amps at 24 V DC making it ideal for vehicles, boats, ATVs, and similar sources of 12 volt or 24 V direct current.
Light Output: The LE-8900-CT contains sixteen 3W LEDs for a total of 48 watts of power. This array of LEDs produces 4,320 lumens and a color temperature of 6000K which gives it very good color rendering and contrasting properties and the ability to clearly and sharply illuminate objects at long distances. This spotlight features a 10° spot beam that reaches 1,312 feet in length.
Wiring: The LE-8900-CT is equipped with a Deutsch connecter and a 16` C-16-CC-CP coil cord for easy connection to 12 V DC or 24 V DC cigarette plugs.
Suggested Applications: This high power light is ideal for hunting, security, boating, law enforcement, emergency services, utilities, and anywhere high power and remote control functionality are desired.
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.











SHENZHEN THUMBCELLS CO., LTD.



23A/12

TECHNICAL SPECIFICATION
FOR
ALKALINE MANGANESE DIOXIDE BUTTON CELL

PREPARED BY : LEE FA
APPROVED BY : SHAN JUNXIONG
DATE : 8. 18, 2006
SPEC. NO. : THUMBCELLS-23A-E

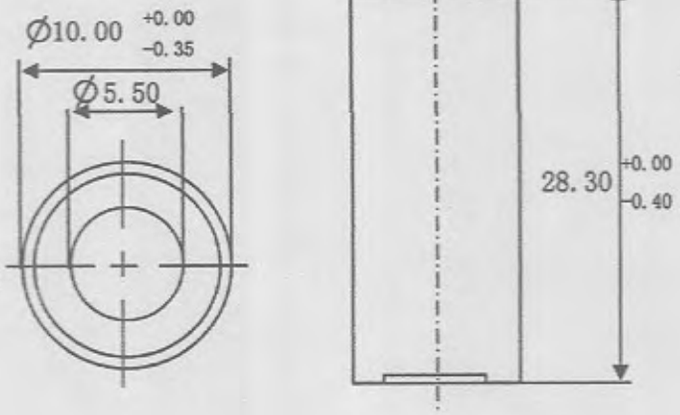
SHENZHEN THUMBCELLS CO., LTD.
RM613, TianJian Building, No.7,Business Newspaper Office Rd.,
Futian Dist,ShenZhen, China.
Tel: (86) 0755-81509623;88853506 Fax: (86) 0755-29984108
E-mail: thumbcells@126.com http://www.thumbcells.cn

The Manufacturer reserves the right to modify product specification and data stated herein without prior notice.

DATE : 8. 18, 2006
SPEC. NO. : THUMBCELLS-23A-E

A23 Battery

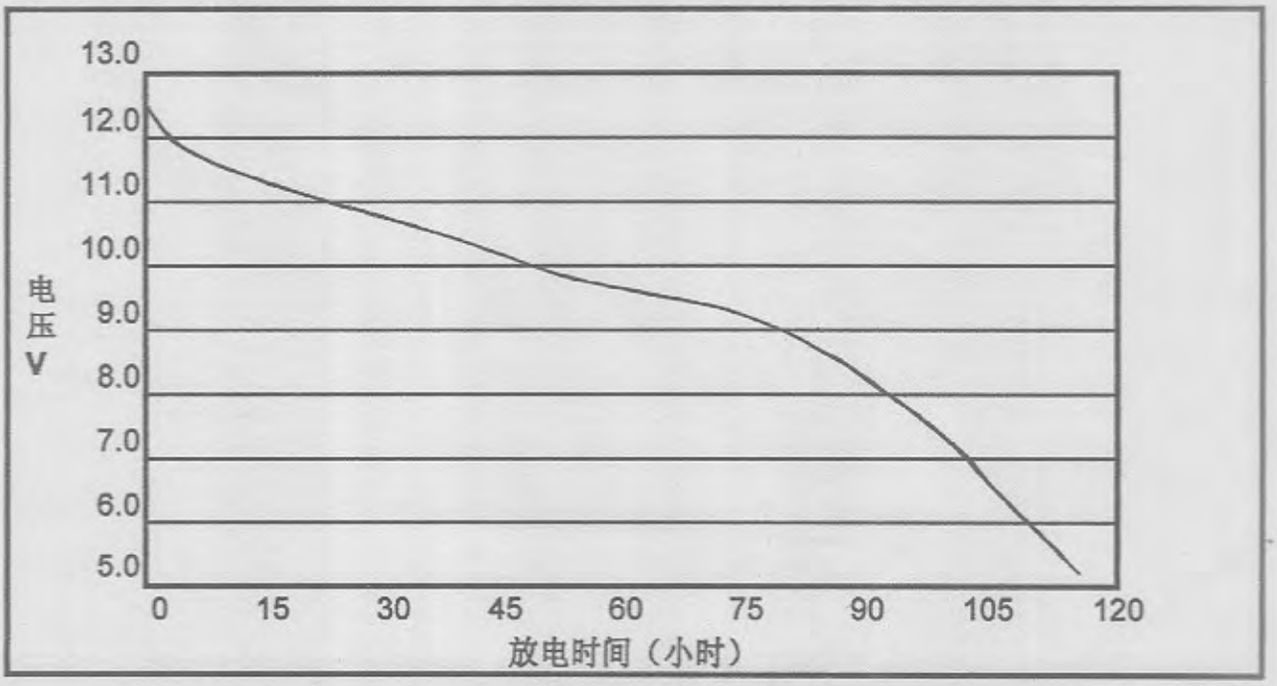
DIMENSIONS:





NOMINAL VOLTAGE : 12 VOLT
APPROX. SERVICE CAPACITY : 50 mAh
APPROX. WEIGHT : 8.1g
RATED AT 20,000 OHMS LOAD TESTED AT 21°C WITHIN 30 DAYS OF MANUFACTURE.
SYSTEM : ZIN/MANGANESE DIOXIDE

ESTIMATED AVERAGE HOURS SERVICE AT 21°C



AOV®

MSDS REPORT

NO.: ASZ09102906001 Date: Nov 07, 2009

MSDS Report

Samples Name: button zinc manganese battery

Model: AG0, AG1, AG2, AG3, AG4, AG5, AG6, AG7, AG8, AG9, AG10, AG11, AG12, AG13, LR521, LR621, LR726, LR41, LR626, LR754, LR921, LR926, LR1120, LR936, LR1130, LR721, LR43, LR44, LR632, LR932, 23A, 27A, L736H, L736C, L1131H, L1131C, L1154H, L1154C, 625A, L521H, L621H, L726H, L626H, L754H, L921H, L926H, L1121H, L936H, L721H, L1142H

Client Name: shenzhenthumbcells co.ltd

Client Address: 161 building,the 2nd zone,Baoyuan Road. Xixiang Avenue,BaoAN District,Shenzhen City

Written by: Daisy

Inspected by:

Approved by:

AOV®

MSDS REPORT

NO.: ASZ09102906001 Date: Nov 07, 2009

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: button zinc manganese battery

Manufacture: /

Address: /

Tel: 0755-8885-3506

Emergency Telephone: 0755-8885-3506

Fax: 0755-29984108

Email: sales@thumbcells.com

Section 2 - Hazards Identification

Fatalness grade: In accordance with Directive 1999/45/EC, the sample belongs to dangerous goods.

Invasion route: Skin touch: No effect under routine handling and use

Eyes touch: No effect under routine handling and use

Inhalation: No effect under routine handling and use

Ingestion: No effect under routine handling and use

Health hazards: These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded lithium with skin and eyes should be avoided.

Environment hazards:

Burn & burst danger: A shorted lithium battery can cause thermal and chemical burns upon contact with the skin. It may be a reproductive hazard.

Section 3 –Composition/Information on Ingredient

Pure☐ Admixture☐

Composition:

Chemical Name	In % By Weight	CAS No.
Manganese dioxide	30	1313-13-9
Graphite	3	7782-42-5
Zinc powder	2	7440-66-6
Potassium hydroxide	8	1310-58-3;71769-53-4
Metal casing	57	/

Section 4 - First Aid Measures

Skin touch: Remove contaminated clothes and rinse the skin with plenty of water.

Eyes touch: Lifting the upper and lower eyelids, flush the eyes with plenty of water or saline water. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

Ingestion: Drink sufficient hot water and induce vomiting. Get medical aid.

AOV®

MSDS REPORT

Section 5 - Fire Fighting Measures

Danger characteristic: It is apt to flame under the condition of fire, when the electrolyte is extruded

Extinguishing Media: Carbon monoxide, carbon dioxide

Fire-Fighting method & media: The staff must equipped with filtermask(full mask) or isolated breathing apparatus. The staff must wear the clothes which can defence the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Sparying water on the containers in the fireplace to keep them cool until finish extinguishment. If the containers in the fireplace whose color have changed, or can hear the voice from the safety relief equipment, the person must evacuate at once. Media: foam, powder, Co_2, sandy clay.

Section 6 –Accidental Release Measures

Emergency treatment: If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the batteries to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate

Waste Disposal Method. It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, and to bury the discharged battery in soil.

Section 7 - Handling and Storage

Handling: The batteries should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.

Storage: Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperature should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

Section 8 - Exposure Controls, Personal Protection

Maximum admissible concentration: No standard yet

Monitoring Method: /

Engineering Control: To supply with sufficient partial air exhaust.

Respiratory Protection: Wear self-contained breathing filtermask(full mask) if the density exceed in the air. Wear breathing apparatus under the condition of emergency rescue or evacuation.

Eyes Protection: Have been mentioned in the respiratory protection.

Body Protection: Wear rubberized fabric antigas clothes.

Hands Protection: Wear rubber gloves.

Other Protections: No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

Section 9 - Physical and Chemical Properties

Flash Point: /

Appearance: silvery button battery

Boiling Point: /

Proportion: /

Acid Value: /

PH Value: /

Permission of solvent inhalation: /

Solubility: Don't soluble in water

Section 10 - Stability and Reactivity

Stability: Stable under normal temperature.

Distribution of Ban: strong oxidizer and strong acid

Conditions to Avoid: Heating, mechanical abuse and electrical abuse.

Hazardous Polymerization: If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

Hazardous Decomposition Products: /

Section 11 - Toxicological Information

Acute Toxicity: /

Sub-acute and Chronic Toxicity: /

Irritation: /

Sensitization: /

Mutagenicity: /

Carcinogenicity: /

Others: /

Section 12 - Ecological Information

Eco-toxicity: Ecological inert: /

Biodegradable:

Non-biodegradable: /

Bioconcentration or biological accumulation: /

Other harmful effects: /

Section 13 - Disposal Considerations

Nature of waste: /

Waste disposal methods: Refer to National or Local regulations before handling.

Attention abandoned: /

Section 14 - Transport Information

Number of dangerous goods: /

UN Number: /

Packaging Mark: /

Packaging Method: /

Transport Attentions: More information concerning shipping, testing. More information concerning shipping, testing, marking and packaging can be obtained from Labelmaster at http://www.labelmaster.com.

Separate Li-Polymer rechargeable batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.

Section 15 - Regulatory Information

Regulatory Information: <<Dangerous Goods Regulation>>(IATA)

<<International Maritime Dangerous Good

Law Information

In accordance with all Federal, State and Local laws.

Section 16 - Additional Information

References: /

Guidance departments: /

Data audit unit: /

Laws Help: /

Other Information: The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Frequently Asked Questions (FAQ)

Q. Should I order a 12V or 24V light?

A. Most customers need a 12V light. Standard vehicles and ATVs operate on 12V. Military vehicles operate on 24V. 24V does not mean it will be brighter. Operating a 24V light on a 12V power source will make halogen lights half as bright while LED lights will not operate. The motors will rotate very slowly and the light will appear broken.

Q. What is the difference between Radioray and Radioray GT models?

A. The Radioray GT series was introduced in 2019. The upgraded Radioray GT series features: updated exterior housing, higher torgue drivetrain, more precise pan/tilt control, upgraded stainless steel mounting bracket, enhanced resistance to vibration and impact, and new wiring harness.

Q. I own a halogen Radioray. Can I upgrade to a LED light or do I need to purchase a new light?

A. Yes. Halogen lights can be upgraded to LED by purchasing the GL-15444 LED module. This is compatible with GL-2XXX, GL-5XXX, GL-7XXX, and GL-9XXX models.

Q. What remote options are available for the Radioray?

A. We offer wireless handheld, wireless dash mount, and hard wired dash mount remotes for the GL-2XXX, GL-7XXX, and GL-9XXX series. The GL-5XXX series is only offered with a hard wired in-line remote.

Q. For wireless remotes, what is the operating distance and frequency?

A. The wireless handheld and wireless dash mount remotes operate up to 100' distance away from the light. The remote operates on 433 Mhz.

Q. Can I convert my hardwired light to a wireless remote?

A. If the light was originally manufactured as both wireless and hard-wired, you can purchase a replacement remote and program it to your light. If you purchased a military spec 24V light with no transceiver, the light cannot be converted to wireless.

Q. How long is the power cord?

A. For permament mount lights with wireless remotes, a 1-foot power cord is provided with tinned leads ready for installation. For portable models, a 15-foot power cord with a universal 12V cigarette plug is provided. We offer alternative cords for portable models that can be purchased separately, including ring terminals and battery clamps. For permament mount lights with hard wired remotes, we offer 20-foot and 32-foot remote cables.

Q. Can I control multiple lights from one remote?

A. Yes. For wireless remotes, both lights must be programmed to the same remote. See reprogramming instructions on GL-30100 for how to do this. For hard wired lights (excluding GL-5XXX series), a Y-splitter cable is needed. Part numbers for Y splitter varies by model. Contact sales to purchase a Y-splitter cable.

Q. Can I control one light from two remotes?

A. Yes. For wireless remotes, both remotes must be programmed to the same light. See reprogramming instructions on GL-30100 for how to do this. For hard wired lights (excluding GL-5XXX series), a X-splitter cable is needed. Part numbers for X splitter varies by product. Contact sales to purchase an X-splitter cable.

Q. Can I purchase a longer remote harness for my light with a hard wired remote?

A. Yes. We offer replacement cable and extension cable in 20-foot and 32-foot. An extension cable will plug in between your existing cable and the light. A replacement cable fully replaces your existing cable. Part numbers for these cables by product. Contact sales to purchase extension or replacement cables.

Q. What is the amp draw of my light?

A. Halogen lamps draw 5.5 amps at 12V DC. LED lamps draw 3.7 amps at 12V DC.

Q. Are replacement parts available for my existing light?

A. Yes. Replacement parts are available for most models. You can purchase them directly from our website, or contact sales.

Q. Can you repair my light for me?

A. Yes we can. Before sending in your light for repair, you must obtain a Return Authorization Number and include the RGA form in the packaging with your light. Service repair fees may apply.

Q. I purchased a military surplus 24V light, can you convert it to 12V?

A. The light can have the internal board converted to 12V. A cheaper and faster solution is to purchase our 12V to 24V transformer (part # DCP-12x24-10A-WP). This will be wired between the power source and light, and allow the 24V light to operate on a 12V vehicle.