



INSTALLATION INSTRUCTIONS

LS2-M & LS2-MNS

**⚠ WARNING**

These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with these instructions, current electrical codes, and/or the current National Electric Code (NEC) and/or Canada Electrical Code. (CEC).

⚠ WARNING

Disconnect supply power at the source prior to installation, lamping, re-lamping, moving or servicing in any way.

⚠ WARNING

DO NOT OPERATE LIGHT STRING WITH ANY UN-LAMPED SOCKETS! Make sure each socket has a lamp securely fastened before connecting to a power source.

⚠ WARNING

Do not overload any socket's maximum wattage capacity (25 watts). Do not overload the overall maximum wattage capacity of 1200 watts when connecting multiple light strings.

⚠ WARNING

All bulbs must be OUTDOOR rated. Use of improperly rated bulbs can result in electric shock, fire, and/or damage to the product, property or injury to self.

SAFETY INFORMATION

- To reduce the risk of fire, electric shock, or injury to persons, pay close attention to this manual and stay within its guidelines when using this product.
- Keep combustible material clear of lamps (bulbs). DO NOT allow bulbs or sockets to come into contact with walls, ceiling, fabrics associated with shades, blinds, or other materials. Lamped sockets should hang freely in a downward direction with a minimum of 3" space from the nearest object. DO NOT cluster the lamps.
- Suitable for wet location use. DO NOT submerge in water.
- Not intended for installation inside ceiling, soffits, cabinets or other enclosed spaces.
- Avoid damage to the insulation during installation. DO NOT pierce or otherwise compromise wire's or socket's outer covering, jacket or sheathing.

WARNING: When using outdoor use portable luminaires, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS before beginning.

- Use only two-wire outdoor extension cords that have two-prong plugs and receptacles that accept the light string's plug.
- Ground Fault Circuit Interrupter (GFCI) protection is to be provided on the circuit(s) or outlet(s) to be used for the wet location portable light string luminaire. Receptacles are available having built-in GFCI protection and are able to be used for this measure of safety.
- Use only with an extension cord for outdoor use such as an extension cord of cord type SEW, SEOW, SEOOW, SOW, SOOW, STW, STOW, STOOW, SJEW, SJEOW, SJEOOW, SJW, SJOW, SJOOW, SJTW, SJTOW, or SJTOOW.

SAVE THESE INSTRUCTIONS for future use.

IMPORTANT: The maximum distance to the receptacle is determined by the length of the cord provided and the appropriate extension cord if used.

INSTALLING LAMPS:

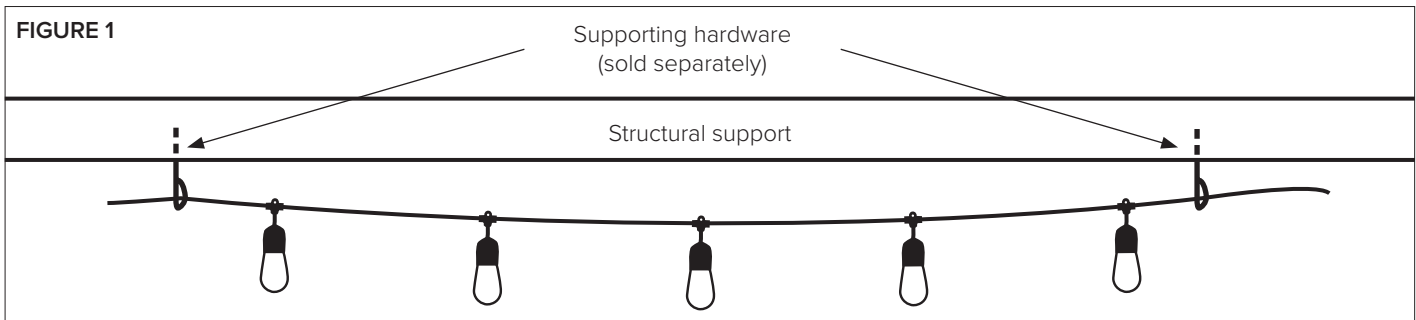
Each light string has 24 sockets. When used with 11-watt S14 lamps, the load per light string is 264 watts / 2.2A.

1. The light string kits are compatible with S, A15 and A19 type incandescent or LED lamps (not included). See chart on reverse.
2. Before plugging in the light string, fill each socket with a bulb. The formulated PVC socket is tall and the contact points are at the base of the socket. When lamping, the bulb will have to be turned slowly but firmly to stretch the PVC around the bulb. Ambient temperatures around 65° - 95°F (18° - 35°C) are ideal since the PVC will be more pliable.
3. After each socket is lamped, plug the light string into a 120V AC outlet and be sure each light bulb lights. If not, note which one(s) didn't light, unplug and carefully turn the unlighted bulb(s) until they make contact with the power contacts at the base of the socket. Repeat until all bulbs light up, then proceed with installation.

SUSPENDING LIGHT STRINGS:

Light sockets must be suspended so that bulbs are facing down only. **DO NOT MOUNT THE LIGHT STRINGS WITH SOCKETS FACING UPWARD!**

1. Light string must be securely attached to a support structure at each end of each span. The maximum unsupported span distance for 48' Cord & Plug Light String is 20 feet (10 sockets).
2. Secure light string to supporting hardware (eyebolts, brackets, etc., not provided) using cable ties (not included). See Figure 1.
3. Cover the unused female receptacle at the last light string with electrical tape to preclude the entrance of water.
4. For spans exceeding 20 feet, use properly rated cable support system and cable ties (neither are provided with the light string) and follow local codes for suspended structures and loads. See www.americanlighting.com for steel cable support systems, if needed.

FIGURE 1



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**RE-LAMPING LIGHT STRINGS:**

WARNING – RISK OF ELECTRIC SHOCK!! Disconnect power at source prior to re-lamping light strings. For outdoor light strings, do NOT re-lamp light strings during rain or other inclement weather conditions.

1. Re-lamp light strings only during dry and calm weather conditions. Ambient temperatures around 65° - 95°F (18° - 35°C) are ideal since the PVC will be more pliable.
2. Unscrew existing lamps by lightly holding the socket in one hand and twisting the lamp counter-clockwise. Lamps may be tight in the sockets. This is normal to prevent moisture from getting into the socket. Be sure to fill every socket of the light string (24 bulbs total).
3. **DO NOT OVERLOAD SOCKETS OR LIGHT STRING!!** Replace with proper wattage and type lamps according to the chart on reverse. Do not exceed 25 watts in any single socket, nor 1200 combined watts of connected light strings.

DO NOT OVERLOAD ANY SOCKET'S MAXIMUM WATTAGE (25W) NOR THE OVERALL MAXIMUM WATTAGE CAPACITY (1200W) WHEN USING AND CONNECTING LIGHT STRING SETS! See chart below.

Lamp Type Used	Lamp Wattage Used	Maximum Number of Connected Cord & Plug Light Strings
S14	11 watts	4 x 48ft light strings
A15	15 watts	3 x 48ft light strings
A15 or A19	25 watts	2 x 48ft light strings

When using LED lamps, calculate total load by adding up wattages used in each of the 24 sockets X number of light strings.

Example for PS14-E26-xx Professional Decorative (Pro-Dec) LED lamps: 1.4W/socket x 24 sockets/light string x 5 light strings = 168 watts.

CARE AND MAINTENANCE:

Periodically inspect wire and sockets for degradation due to weather, UV light or other damage. Promptly replace worn out light string.