

Important: Read all instructions prior to installation.

Low Voltage Landscape Transformers



LVT-75W-SS2T



LVT-150W-SS4, LVT-300W-SS4

Specifications

Model	LVT-75W-SS2T	LVT-150W-SS4	LVT-300W-SS4
Output Voltage	12 or 15 VAC	12, 13, 14, or 15 VAC	12, 13, 14, or 15 VAC
Operating Temperature	-49°–113° F (-45°–45° C)		
IP Rating	IP65		
Weight	7.9 lb (3.6 kg)	12.9 lb (5.9 kg)	15.5 lb (7 kg)

Check product label for specific electrical specifications related to installation. Improper installation will void warranty.

Wiring and Voltage Selection

12 AWG landscape wire is generally recommended. For optimal results, lights should be distributed evenly along the cable run, with higher power lights being closest to the transformer. Higher voltage terminals can be used with longer runs to make up for slight voltage drops. The below equation and table can be used to select the appropriate wire gauge for an application.

Note: When connecting wiring to transformer, do not loosen top terminals on 75 W models as they are for internal wiring only.

Voltage Loss Calculation

$$\frac{(\text{distance (ft)} \times \text{load (W)} \times 2) / \text{cable constant}}{\text{voltage loss}} = \text{voltage loss}$$

Wire Gauge	Cable Constant
#18/2	1,380
#16/2	2,200
#14/2	3,500
#12/2	7,500
#10/2	11,920

Transformer Mounting

With all gray tabs set at the inner position, the timer will not affect function and the connected lights will stay on unless power is switched off.

- To set up the timer, begin by rotating the timer dial until the arrow on the right points to the current time
- (this system uses a 24-hour clock).
- Next, slide dark gray tabs outward at times when system should be powered off.

Note: The system can be manually turned off using the main power switch as well.

Safety and Notes

- Product should be installed and serviced in accordance with applicable national, state, and local building and electrical codes.
- Risk of fire or electrical shock. Install transformer at least 10 ft (3.05 m) from pools, spas, or fountains.
- Outdoor, above ground installation only. For use with low voltage landscape lighting only.
- Transformer has a built-in circuit breaker which can be reset by removing and then restoring power.
- Transformer must be connected to GFCI-protected receptacle marked suitable for wet locations. Receptacle must be protected by a weatherproof cover.
- Do not submerge the transformer or use it to power submersible lights or lights mounted in or near pools, spas, or fountains.
- If cleaning is necessary, use a damp cloth to wipe down case. Do not spray transformer with pressurized water or steam.
- Do not use with dimmer or extension cord or wire in parallel with other transformers.
- Do not exceed 70% of the maximum wattage of the transformer when connecting lights.
- Transformer must be mounted in a vertical orientation, with the bottom at least 1 ft from the ground.
- Ensure all mounts are securely attached and will support the transformer's weight. Failure to properly support transformer may result in damage or injury, for which the manufacturer does not assume responsibility.
- Do not attempt to disassemble or modify transformer.
- Ensure wiring to lights is correct gauge for the run and total power of the intended circuit and is intended for use with outdoor landscape applications.

CAUTION: FOR USE ONLY ON A BRANCH CIRCUIT PROTECTED BY A CLASS A TYPE GROUND FAULT CIRCUIT INTERRUPTER

Transformer Sizing

Total load (watts or volt-amperes) of all fixtures connected to one transformer must not exceed 70% of the W or VA capacity of the transformer. Use the below equation to calculate the most suitable transformer.

$$\text{total fixture load (W or VA)} \div 0.7 = \text{minimum transformer capacity}$$

Transformer Mounting

Mount transformer to solid surface using stainless hardware capable of supporting the weight of the transformer. Hardware is not included. Once screw(s) are properly mounted, slide transformer over screw heads and tighten screw(s) to lock in place once the transformer is level.

System Check

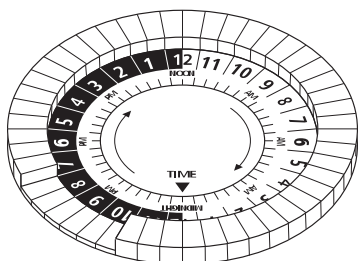
After installing entire system, apply supply power. After five minutes of operation, remove supply power. Check all low voltage electrical connections, which should be cool to the touch. If any connection is warm to the touch, check and re-tighten the connection and repeat the process until all connection problems are resolved.



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Optional Mechanical Timer Operation (150 W/ 300 W)



Represents timer that will come on at 7PM and shut off at 10PM.

Mechanical Timer (LVT-TM)

'OUTLET ON' setting on the side of the timer can be used to manually bypass the timer and allow the connected lights/transformer to stay on at all times.

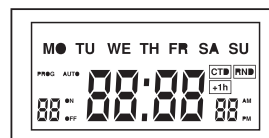
To set up the timer, begin by making sure the timer is set to 'TIMER ON' and rotate the timer dial until the arrow points to the current time. Next, pull gray tabs outward at times when the light system should be powered off. Times where the gray tabs are pushed in will be the only times the system will be switched on.

Optional Photocell Installation

Photocell (LC-115)

1. Remove supply power.
2. Remove knockout from transformer box.
3. Remove inner nut, feed wire through, and attach photocell to housing by reinstalling and tightening inner nut until locked in place.
4. Connect photocell to the photocell plug on the transformer.
5. Close the transformer and reapply supply power.

Optional Digital Timer Operation (150 W/ 300 W)



Digital Timer (LVT-TD)

Before beginning to adjust settings, plug the timer in and press the reset ('R') button with a paper clip to ensure the timer is at factory default settings before use.

Setting Date/Time

1. With supply power on, press and hold the 'CLOCK' button.
2. With 'CLOCK' held down, press the 'HOUR' button to select the hour, 'MIN' button to set minutes, and 'DAY' button to select day of week.
3. Release 'CLOCK' button to save settings.

Setting Switch Times/Days

Timer can store information for up to 20 programs, with independent ON and OFF settings for each program.

1. With supply power on, press the 'SET' button until you reach the desired ON or OFF setting. Each pair of ON and OFF settings will need to be set to work together for proper operation.
2. Use the 'HOUR' and 'MIN' buttons to set the ON time, then press 'DAY' button to select day or combination of days of the week.
3. Press the 'SET' button to move to the OFF settings and adjust using the same process.

Operating Modes

Press the 'MANUAL' button to cycle between operating modes.

OFF - Lights will remain off and set programs will not be activated.
ON - Lights will remain on constantly and set programs will not be activated.

AUTO/ON - Lights are currently on and set programs are active.

AUTO/OFF - Lights are currently off and set programs are active.

Randomize Setting

This allows lights to come on ± 30 minutes from the set time to give the appearance of an occupant manually switching the lights on or off. This can be activated by holding the 'HOUR' button for 3 seconds until 'RND' appears on the screen. Holding the 'HOUR' button again for 3 seconds will deactivate this feature.

Daylight Savings Setting

Hold the 'CLOCK' button for 3 seconds until the '+1h' icon appears and the time will advance one hour. Holding the 'CLOCK' button again for 3 seconds will deactivate this and return the time to normal.

