TimberTech ACCESSORIES

OPERATING INSTRUCTIONS

150W 12V DC Lighting Power Pack with Remote Control

NOTICE

WARNING: RISK OF FIRE OR ELECTRICAL SHOCK

- Install the power unit 5 feet (1.5 m) or more from a pool, spa, or fountain. Where the power unit is installed (a) indoors within 10 feet (3.0m) of a pool, spa, or fountain or (b) outdoors, connect power unit to a receptacle protected by a GFCI.
- Do not use on a dimmer circuit.
- Do not use with an extension cord.
- “CAUTION” For use only on a branch circuit protected by a class A type ground fault circuit interrupter.
- Use Azek/TimberTech 12 volt products only.
- This device is accepted as a component of landscape lighting systems where the suitability of the combination shall be determined by CSA or local inspection authorities having jurisdiction.
- Use Azek/TimberTech wire only.
- To order additional lengths of wire, order AZTDLLEDWIRE (for secondary runs only).
- The secondary wiring is intended for shallow burial (less than 6 inches/152mm).
- Only use a proper three-pronged GFCI outlet.
- The power unit shall be connected to a GFCI protected hooded flush type cover plate receptacle marked “Wet Location” while in use.
- Do not cut or modify the AC power cord.
- Do not use submersible luminaires.
- Do not connect two or more power supplies in parallel.
- Power supplies are for outdoor use.
- Risk of fire. (Do not place wire insulation in the terminal block). Check the connection after installation.
- Minimal servicing required. Lugs only needing to be tightened occasionally. Check torque of terminals occasionally.
- Follow the recommendations in the lighting manual for proper installation on the secondary wiring.
- For use with landscape lighting systems only.
- This device is accepted as a component of landscape lighting system where the suitability of the combination shall be determined by CSA or local inspection authorities having jurisdiction.

Before wiring light fixtures to Power Pack, use chart below to calculate wattage load.

HOW TO CALCULATE WATTAGE LOAD FOR 150W POWER PACK

Fixture	Watts per Fixture		# of Lights		# of Watts
Post Cap	4	x		=	
Riser	2	x		=	
Accent	2	x		=	
Under Rail	2	x		=	
InDeck	1	x		=	
Lighted Island Cap	2	x		=	
			Wattage Sum	=	

EXAMPLE

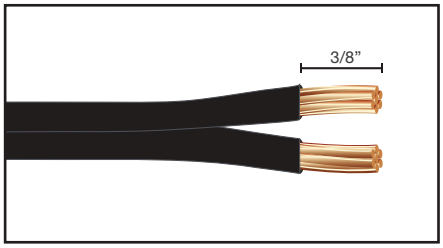
Fixture	Watts per Fixture		# of Lights		# of Watts
Post Cap	4	x	10	=	40
Riser	2	x	8	=	16
Accent	2	x	8	=	16
Under Rail	2	x	0	=	0
InDeck	1	x	0	=	0
Lighted Island Cap	2	x	6	=	12
			40 + 16 + 16 + 0 + 0 + 12	=	84

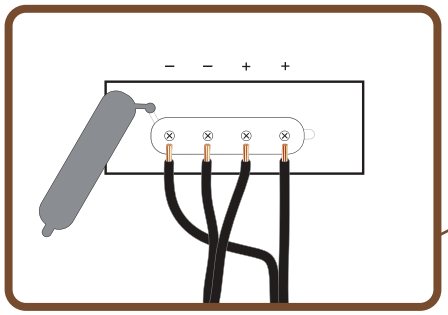
*** Total wattage load should never exceed 150 Watts.

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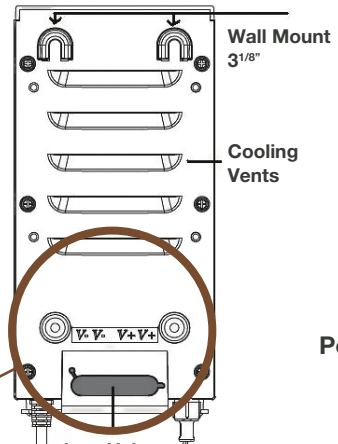
OPERATING INSTRUCTIONS

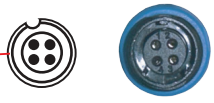
150W 12V DC Lighting Power Pack with Remote Control



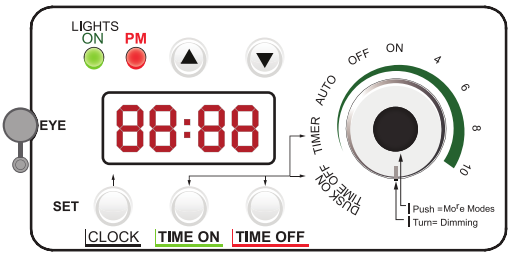




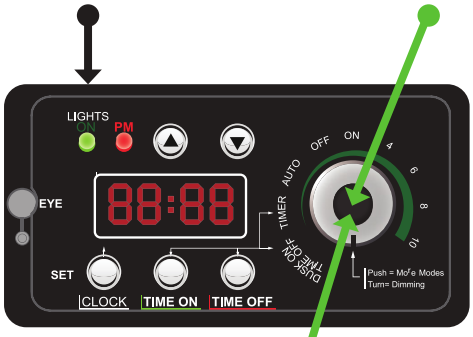




4 Pin Receptacle Connector



*Important Dimmer Control Note: To start, make sure to rotate dimmer control knob all the way clockwise.



0-10V interface (for existing home automation)

Refer to the supplemental instructions for Home Automation configuration

REMOTE CONTROLLED LIGHTING:

The 150W Power Pack now includes a remote control, making it easy to control anywhere on your property. Introducing the remote control, now with a greater lighting experience.

Easily choose between dimming features at your fingertips.

Extend the antenna for additional coverage on your property.

SETUP INSTRUCTIONS:

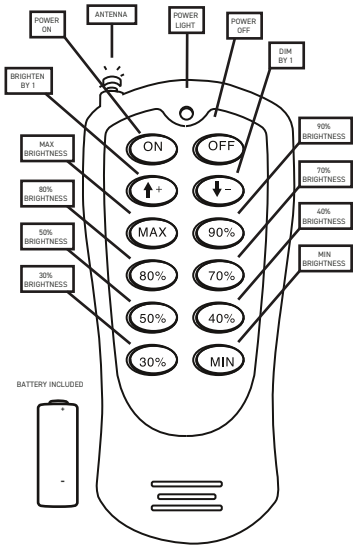
Step 1. Open the back cover and insert the battery into the battery housing.

Step 2. All remotes come paired from the factory.

Step 3. Once connected you will have remote access to the power pack.

TimberTech RF Remote Control Pairing for the TimberTech 150W PowerPack

• PowerPack:
Switch mode to **[OFF]**
• Add Remote:
Press and hold **[TIME-ON]** button until **"----"** is shown on the PowerPack display
Press ↓ on the remote until **"ADD"** is shown on the PowerPack control display
Press **OFF** key on the remote control to confirm
• Remove Remote:
Press and hold **[TIME-ON]** button until **"----"** is shown on the PowerPack display
Press ↓ on the remote until **"ADD"** is shown on the PowerPack control display
Press **OFF** key on the remote control to confirm





Remote requires a TYPE 23A battery (Included)

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OPERATING INSTRUCTIONS

150W 12V DC Lighting Power Pack with Remote Control

VOLTAGE: The maximum output is 13.8 volts to insure long runs supply sufficient voltage to power our line of lights. Our lights are designed to run at the maximum voltage or any voltage less than 13.8 volts to provide warm and inviting levels of brightness or dimming.

REMOTE CONTROL: The new Remote Control, with a long range antenna will easily and instantly change the settings without going to the Power Pack. If you're not getting a strong signal to the Power Pack then extend the antenna from the remote control for improved range.

0-10 VOLT INTERFACE: If you have a home automation system that accepts 0-10v outputs, the Power Pack is the ideal addition to your home automation system, tying in the Power Pack. Consult with your home automation specialist to learn if your home automation system can be integrated to include the Power Pack. Refer to the supplemental instructions for Home Automation configuration

LIGHTNING PROTECTION: The Power Pack now includes built in lightning protection.

1. SETTING THE CLOCK:

1-1: To set the clock, press and hold the "CLOCK" button while selecting the Up or Down arrows. (Pay attention to the PM indicator light).

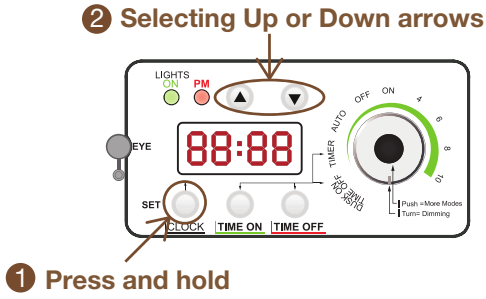


FIGURE 1- 1

2. FUNCTION OF EACH MODE:

2-1: **DUSK ON/TIME OFF** - Darkness will trigger the lights to come on.

2-1-1: To set the off time; Press and hold the "TIME OFF" button while selecting Up or Down arrow buttons. (Pay attention to the PM indicator).

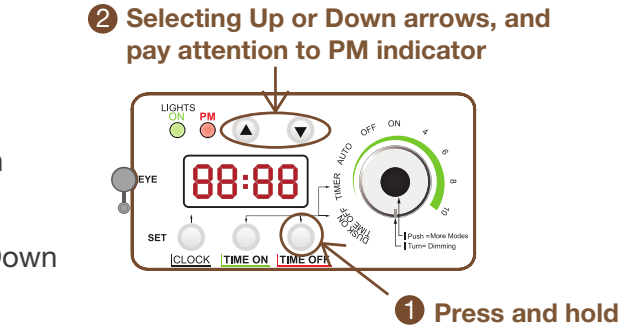


FIGURE 2-1

2-2: **TIMER** - TIME ON and TIME OFF times must be set.

2-2-1: Press and hold the TIME ON button, then press the Up or Down arrow buttons to adjust to the desired TIME ON.

2-2-2: Press and hold on the TIME OFF button, then press the Up or Down arrow buttons to adjust to desired OFF TIME.

2-3: **AUTO** - Uses the Photo Eye trigger control.
It turns off when there is light on the eye for over one minute and turns on when there is no light on the eye for over one minute. If the remote photo eye is used then the rubber grommet needs to cover the photo eye on control panel.

2-4: **OFF** - Power Pack will not come on.

2-5: **ON** - Power Pack is always on. Use this mode for other home automation systems.

2-6: **4 / 6 / 8 / 10 - USES THE PHOTO EYE TRIGGER CONTROL.**
The Power Pack will come on at dusk and will shut off after the selected amount of hours (4, 6, 8 or 10).

WARNING: Dimmer function is always invoked on all modes. If using non dimmable LED lights, make sure the white mode knob is all the way turned to clockwise position for maximum and full brightness.

3. SAFETY AND INSTALLATION GUIDE:

1) Power Pack should be mounted a minimum of 1 foot or higher above ground level.
2) Try to find the best location that keeps the wire runs as short as possible and able to reach the power without using extension cords.
3) Recommended to be plugged into a GFCI (Ground Fault Circuit Interrupter).
4) Calculate the total load by adding all of the fixtures wattages.
5) Unit is not field serviceable. Do not remove the cover.
6) User is responsible to check all local regulations and installation requirements for their area.

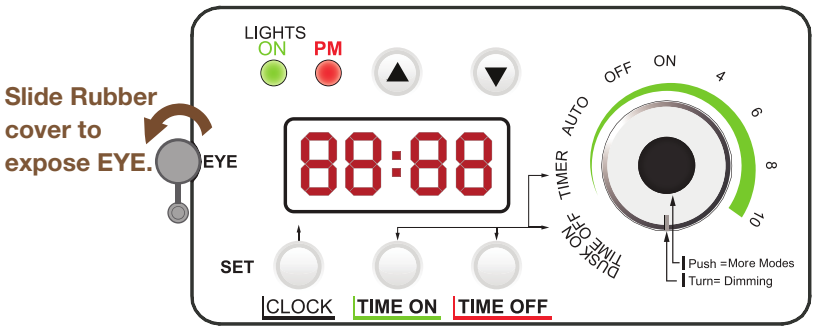
4. TROUBLESHOOTING AND TESTING PROCEDURES:

There are many features built into your Power Pack unit to help prevent failures, such as Overload Protection, Thermal Protection, Short Circuit Protection, Cooling Fan Monitor, and Auto Reset.

TESTING THE PHOTO EYE:

OPTION #1: USE THE INTERNAL BUILT-IN PHOTO EYE:

Note: Photo eye must be uncovered at all times, except when using the external photo eye probe.



TO TEST PHOTO EYE

Switch mode to “OFF”

Press and hold the “TIME OFF” button slide the rubber cover back and forth over photo eye and the green “LIGHT ON” led indicator should correspond.

OPTION #2: USE THE EXTERNAL PHOTO EYE:

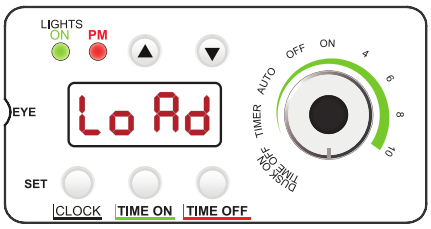
This option is used when the Power Pack is mounted inside or when you are trying to block uncontrolled light from a nearby source. You should make sure the internal Photo Eye is covered. Then plug the External Photo Eye cable in the bottom and make sure it is flush and is tightly sealed. Use the provided mounting clip to aim the External Photo Eye to the desired position that works best. Use same method as option #1 to test the light sensitivity.

The 7 segment clock display is also used to aid with error codes that can occur. It will shut off after 3 minutes of no button activity. To wake up the display, simply press any button.

5. DISPLAYED ERROR CODES ARE AS FOLLOWS:

OVER LOAD:

Will be displayed by “LoAd” on the clock display. If this condition occurs, the Power Pack will Auto reset 3 times and if Over Load condition still exists, it will shut off and continue “LoAd”. To resolve this, try to identify the defective light or remove some of the lights to lower the load. Shorted underground wiring, usually at a distance away, can also cause this, but it will generally trip the Over Load condition faster than too many lights on one circuit will.

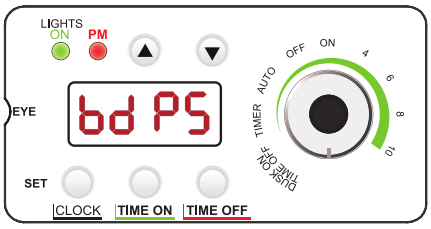


BAD POWER SUPPLY OR SHORT CIRCUIT:

Will be displayed by “bdPS” or “ShbP” on the clock.

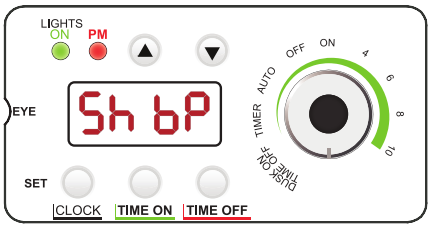
BAD POWER SUPPLY:

Error When No Wires Are Connected to the Output Terminal Upon power on and when 0 volts output detected. If this condition occurs, remove all landscape wiring from output terminal block, remove AC power cord, wait 5 seconds to reset and if message still exist then it will require service.



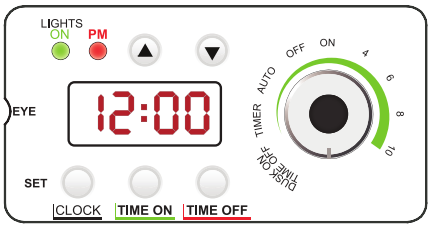
SHORT CIRCUIT:

Error Only When Wires Are Connected to the Terminal will shut down the Power Pack within a few seconds upon powering on. Check for faulty wiring, frayed wires near the +/- terminal block or defective LED. Isolate the short. Reset by unplugging the AC cord, wait 5 seconds and reconnect. Power on unit. If short circuit does not exist, continue. if fault returns again, isolate the bad wiring or faulty LED.



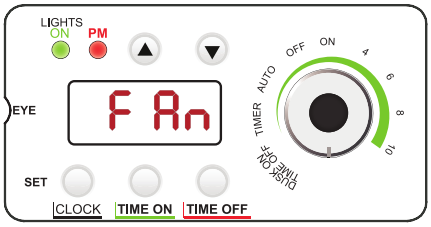
FLASHING 12:00:

Will be displayed when the system has not been programmed, or when battery level is too low. Press and hold the clock button while selecting up/dn arrow to adjust to local time setting. After 1 hour plugged into AC power, the battery will be recharged.



FAN MONITOR:

If fan is obstructed, there will be 3 attempts to unjam the fan from insects or possible plant growth entering the rear vents. The Power Pack will shut off and “FAn”. Unplug the AC cord and inspect rear vents. Plug in the AC power cord and try again. Never stick metallic objects into the fan vent.



6. ELECTRICAL

1-1: USA Input voltage: 120VAC+/-10% 60Hz
1-2: Output DC voltage: (MAX) 13.8 VDC +/- 5% variable dimmer to 8.5VDC +/-2% (MIN)
1-3: Maximum DC AMPS 12.5 continuous
1-4: Overload trip @ 17-19 AMPS from 3-15 minutes
1-5: Operating Temperature -30C to 70C