

MODEL LCAT254896WT SPECIFICATIONS

Solar Powered, 25 Lamp (LED) Telescoping Winch Trailer Mounted Arrow Board

Trailer Dimensions

- Length with tongue: 104¾"
- Length without tongue: 55"
- Width with fenders: 68½"

Trailer Specifications

- Frame: 2" x 2" x 1/8" tubular steel
- Paint: Powder paint, orange with zinc primer
- Salt spray fog: 1,000 hours
- UV Resistance: 500 hours
- Axle and Springs: Straight tubular steel 3500 pounds
- Wheels and Tires: 5 lug – P205/75R15
- Fenders: 16 – gauge steel
- Tongue and Safety chains: 2" hitch, ¼" safety chains with hooks
- Jacks: Adjustable 10" jacks (2000 lbs. Capacity) on each corner of the trailer.
- Tail lights: Dual combination reflective lights with stop, tail and turn signal. License plate bracket.
- Lift winch: Gear ration-4: 1, Load Capacity-1200 lbs. Reel Capacity 58 FT.
- Wiring: Enclosed in jacketed cable or conduit
- Battery/Controller box: Steel fabrication, lockable, hinged, vented.

Sign Display

- Specifications:
 - Height: 48"
 - Length: 96"
 - Width: 3 3/8"
 - Material: .080 Aluminum frame 48"x96" w/ (2) 47¾" cross members
.063 Aluminum front panel 48"x96"
.063 Aluminum back panel 48"x96"
- Paint: All powder coated
- Flat black finish to reduce glare
- Salt Spray Fog: 1,000 hours
- UV Resistance: 500 hours
- LED bulbs: (25) yellow/amber Par 46 LED's with 360 ° high impact plastic visor
- Push on type connectors to prevent separation due to vibration during travel and operation.

Photocell Assembly

- Monitors ambient light conditions and adjusts brightness accordingly

Power and Charging

- Battery bank:
 - Typical installation is one (100 amp) 12-volt battery wired for 100 combined amps.
- Electronic Circuitry: Solid state, reverse polarity protection, properly fused, disconnects on all cables.

Solar Panel

- Typical Electrical Characteristics 40 W
- Voltage at Pmax (V mp) 17.3 V
- Current at Pmax (IMP) 2.31 A
- Short-Circuit Current (Isc) 2.57 A
- Open-Circuit Voltage (V oc) 21.6 V

Solid State Regulator

Electrical Specifications:

- Voltage: 12/24V
- Rated Solar Input: 10A
- Rated Load Current: 10A
- Equalization Voltage: 14.8V
- Boost Battery: 14.4V
- Float Battery: 13.6V
- Low Voltage Disconnect: 11.1V
- Low Voltage Reconnect: 13.1V
- Self-Consumption: 6 mA
- Operating Temp. -35 to +55°C

25 Light Control Box:

- **Auto**- automatically adjusts the power to the lights from 100% (daytime use) to 50% (nighttime use) depending on the ambient light. The auto dimming is controlled through a photocell mounted in the bottom of each arrow board where it will be protected from vehicle headlights and street lamps.
- **Bright**- maintains 100% power to the lights regardless of the ambient light.
- **Dim**- maintains 50% power to the lights regardless of ambient light.
- The Control Box has (12) flashing modes to choose from:
 - Single flashing arrow Left
 - Single flashing arrow Right
 - Sequential arrow Left
 - Sequential arrow Right
 - Double flashing arrow
 - Caution alternating diamonds
 - Caution center bar
 - Caution four corners
 - Chevron Left
 - Chevron Right
 - Stem arrow Left
 - Stem arrow Right

Control Functions:

- **Power Switch** - Provides power from the control box to the Arrow Board
- **Power Indicator Light** - The LED indicates the Control Box has power and is ready for operation
- **Fuse** - Protects the wiring from damage in the event of malfunction
- **Mode Selector** – Provides selection of the warning modes.
- **Manual Dim Switch** – Provides the user with the ability to override the photocell used for the automatic dimming when an unusual situation occurs (such as the vehicle being parked under a streetlight at night).

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