Great for charging a single 12v battery operated lift system.

Great for charging dual batteries used in a 24v lift system, or charging a single 12v battery on two boat lifts that are near each other.

Great for charging dual batteries used in a 24v lift system. (Requires automatic 12/24v charge controller). Also great for charging a single 12v battery lift system that is used frequently with larger lifts and boats. (Requires automatic 12/24v charge controller)
Charging options for all lifts & systems
Fits Round, Square, & Rectangle Lifts
Strong Angle Adjustable
LL-SP-10W (10 WATT)

LL-SP-20W (20 WATT)
Single 5w-12v solar module charging a single 12v battery

LLSP-5w-12v

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com
Single (10w-12v) or (15w-12v) solar module charging a single 12v battery

(-) Negative to System

(+) Positive to System

LLSP-10w-12v
Or
LLSP-15w-12v

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com
Single 20w-12v solar module charging a single 12v battery

**NOTE:** Charge Regulator Generally Required
Single 20w-12v Solar module
Charging parallel 12v Batteries

*NOTE:* No Charge regulator required.

LLSP-20w-12v

(-) Negative to System

(+) Positive to System

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Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com
Single 20w-24v solar module charging two 12v batteries in a 24v configuration

**NOTE:** Specially designed solar module for 24v systems only: DO NOT use this solar module on a single 12v battery as it will damage the battery.

LLSP-20w-24v

+ Positive to System

- Negative to System

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com

Annotations:
- Single 20w-24v solar module
- LLSP-20w-24v
- Charging two 12v batteries in a 24v configuration
- (+) Positive to System
- (-) Negative to System
- Jumper
High Power Use 24v System

TWO 20w-24v solar modules charging two 12v batteries in a 24v configuration

**NOTE:** Specially designed solar module for 24v systems only: DO NOT use this solar module on a single 12v battery as it will damage the battery.

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com
Two 10w-12v solar modules charging two 12v batteries in a 24v configuration

**NOTE:** This method is an older way of wiring, it MAY result in unequal charging due to slight difference between solar modules and differences between both batteries. We **HIGHLY** suggest you go to the next diagram to wire the modules in series for equal charging to both batteries.
Two 10w-12v solar modules wired in series to charge two 12v batteries in a 24v configuration

**NOTE:** Best Method for Dual 10w-12v modules.

(+) Positive to System

(-) Negative to System

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com
DUAL Purpose Solar Module System:
-One Charging a 12v Lift Battery
-One Charging a 12v Boat Battery

NOTE: Regulator recommended for modules larger than 10w.

LLSP-5w-12v
LLSP-10w-12v
LLSP-15w-12v
LLSP-20w-12v

(-) Negative to System
(+) Positive to System

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com
Battery Status Indicator

Perfect for displaying your battery status and level of charge. Simply push the button to test and check status and if your battery is properly charging.

12v Lift systems
1-Unit Required

24v Lift systems
2-Units Required

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com
Included Parts

Dual & Single Hanging Battery Trays

Hanging Battery Trays:
1. Hang Tray over horizontal canopy beam.
2. Position Tray so that vertical boat lift post is behind the tray so that the tray is resting at a level position.
3. Place Battery on Tray.

Single Hanging Battery Tray

Watch Online

Dual Hanging Battery Tray

Watch Online

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com
Single & Dual Universal Battery Trays

Universal Battery Trays:

1. Mount the Tray to the inside of the lift on the vertical post of the boat lift with the winch mechanism
2. Tightly secure the Hose clamps around the boat lift vertical post.
3. Place Battery on Tray.

Note: Dual Tray comes with 3 straps
Solar Panel Mounting Arm Kit

Models:
• LL-SPMA-36”
• LL-SPMA-48”
• LL-SPMA-72”

1. Position the J-Arm on the vertical Post with the most exposure to sunlight
2. Use straps to tighten the J-Arm to the vertical Post
3. MAKE SURE the J-Arm is TIGHT!
4. Adjust solar panel angle & direction for maximum sunlight exposure.
Solar Panel Mounting Arm Kit

Models:
- LL-SPMA-12”
- LL-SPMA-36”
- LL-SPMA-48”
- LL-SPMA-72”

Adjust Angle to maximize sun exposure for your location.

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com

12v Systems
24v Systems
DUAL Solar Panel Mounting Arm Bracket

- Bolt
- Top Washer
- Bottom Washer
- Bottom Nut (Under Solar Panel Frame)
- Lock Washer
- Dual Bracket
- Large Bolt
- Large Washer
- Nut
- J-Arm (Cut view)

Panel # 1 (Any Size)
Panel # 2 (Any Size)

12v Systems
24v Systems

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com
Boat Lift Owl Kit Instructions:

1. Mount Owl to Arm at top Plate with provided Screws.
2. Be careful not to over tighten the screws into the bottom of the owl as it may strip.
3. Tighten the two hose clamps around the boat lift legs and position the owl in desired direction.

Tech Support:
Ph: 260-918-2758
Web: www.lakelite.com