



MODEL S100 SEALEAF RAIL-MOUNTED MARINE SOLAR PANEL

sl100-Manual-02 Revised June 20, 2023 LightLeaf Solar Ltd. www.lightleafsolar.com (306) 952-4072

General cautions and warnings

- Important—please read this manual carefully before installing or using this solar panel and save it for reference.
- For use in 12V DC systems only.
- Observe polarity throughout the entire system during installation—Red Positive.
- A charge controller is required before battery connection.
- Tighten the clamp adjustment screw just enough to support the panel.

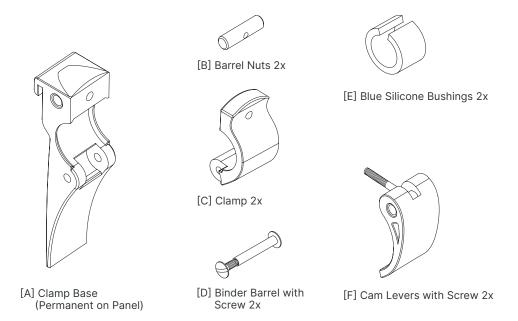
Mechanical and Electrical Specifications

Specification	Data
Nominal Max Power (Pmax)	110W
Optimal Operation Voltage (Vmp)	17.3V
Optimal Operation Current (Imp)	6.3A
Open Circuit Voltage (Voc)	21.2V
Short Circuit Current (Isc)	6.8A
Cell Type	Sunpower Maxeon Gill Premium ME3 25.1% Eff.
Dimensions	1073×575mm (42.2"x22.5)
Panel Thickness	9mm (3/8")
Weight	2.5kg (5.4lb)

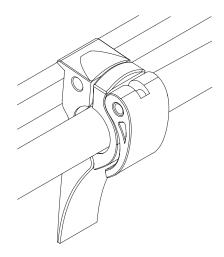
Electrical data at STC (1000W/m², AM 1.5, 25 DegC)

Railing Installation

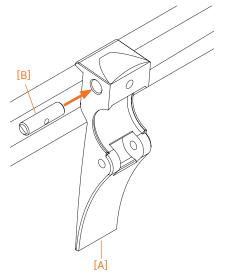
In general, the solar panel is mounted to any 1" diameter railing on your boat—Pushpit, Pulpit, Bimini or Radar Arch. The custom quick release pivot hardware is made up the following parts:

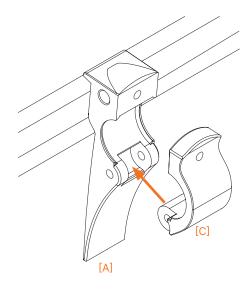


The clamp assembly encloses the railing and is clamped in place with the Cam Lever. There are two clamp assemblies per panel (spaced at 500mm).



- 1. Install the Barrel Nuts [B] into the Clamp Bases [A] with the slot aligned to the Lever Screw.
- 2. Install the Clamp [C] into the Base [A].

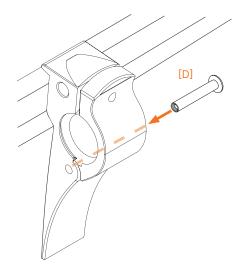


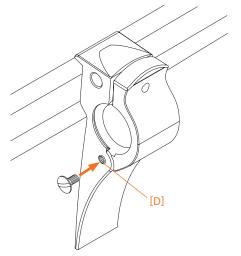


NOTE: If the Barrel Nuts are loose in the socket holes, place a piece of tape over each end to avoid having to go swimming to retrieve them!

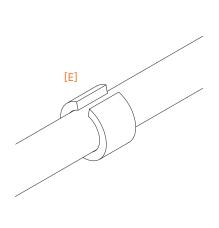
3. Insert the Binder Barrel [D].

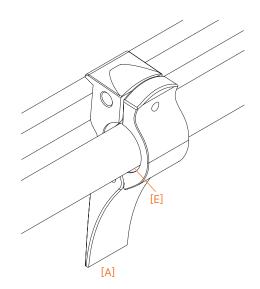




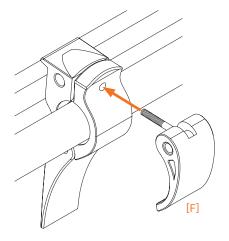


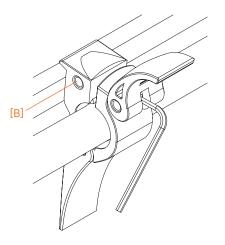
- **5.** Place the two Blue Silicone Bushings [E] over the railing tube.
- **6.** Position the Clamp Bases [A] over the railing tube and Bushings [E] as shown below.





7. Thread the Cam Lever Screw [F] into the Clamp Base Barrel Nut [B]. Tighten the screw while testing the Cam Lever operation to get the proper clamping—just enough to stop the panel from swinging free. Not too tight—the Cam Lever should be able to close with comfortable hand pressure.





8. Installation complete! The panel should be self-supporting when clamped at any angle, while easy to rotate with the Cam Levers released.