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## **Boat Lift Panel Selection Charging Guide**

### **10w-12v Solar Panels:**

- Volts Open Circuit = 18-21 volts in sunlight
- Current = 0.60 Amps in full sunlight
- Use with Marine Batteries and Starter type batteries \* No Regulator Required

10w Panels are perfect for the casual or weekend user with average boat weight roughly 2000-3500 lbs. Generally used with Boat lifts rated for 4000lbs or less. A 10w Solar panel will replace on average ONLY 1 down and 1 up worth of power on a FULL SUNNY DAY with boat weighing around 2500-3500lbs. An average Marine battery will typically provide about 8-12 complete lifts on a full charge: using your lift a few times/day on the weekend and then letting it charge back up during the week is typical for a 10w panels.

### **15w-12v Solar Panels:**

- Volts Open Circuit = 18-21 volts in sunlight
- Current = 0.90 Amps in full sunlight
- USE ONLY with Marine deep cycle batteries – NO regulator required
- DO NOT use with starter type batteries without a regulator.

15w Panels are perfect when your just not sure if a 10w panel will keep you up to charge. Generally used with boat lifts rated for 5000lbs or less. Perfect for the weekend user with casual week-day use. A 15w solar panel will replace on average ONLY 1 down and 1 up worth of power on a FULL SUNNY DAY with a boat weighing around 3500-4500 lbs

### **20w-12v Solar Panels:**

- Volts Open Circuit = 18-21 volts in sunlight
- Current = 1.20 Amps in full sunlight
- Requires Regulator
- Use with Marine Deep Cycle or Starter Type batteries; (Regulator required for both types)

20w-12v Panels are perfect for heavier lifts and boats 5000 lbs+ or the person that uses their lift daily. With a 20w-12v, the battery will always be charged up and ready to go: This setup requires a regulator

(generally included unless specified). This is the best system for large boats unless going to 24v system below.

### **20w-24v Solar Panels:**

- Volts Open Circuit = 38-44 volts in sunlight
- Current = 0.60 Amps in full sunlight
- Use with Marine Deep Cycle or starter type batteries

20w-24v Panels offer the most return on investment. They increase the efficiency of the motor: The speed is more than 2X faster for lifting/lowering; They are perfect for any size boat lift & boat. When considering the cost benefits its only a little extra money to upgrade to 20w-24v over the 20w-12v, the extra cost is typically mostly due to the customer needing the extra battery and \$5 jumper. The 20w-24v solar panel is a specially designed solar panel it is essentially TWO 10w-12v panels wired in series (old method) however it only has two sets of wires coming down so it's a lot easier than mounting two panels and having two sets of wires. With todays larger boat and boat lifts this is the best set-up for the avid user.