Your new Marine Shore Power System will come with:

- 1 - Marine Shore Power Panel Assembly
- 1 - 30 amp/115 v Marinco Shore Power Inlet – Plastic or Stainless depending on option purchased with 10’ cable and Snap Together Plug
- OPTIONAL - 0,1 or 2 optional outlets with 15’ cords
- OPTIONAL – Galvanic Isolator

**Important Notes**

Even though your new Marine Shore Power System is marine grade, not all of the components are designed to come in contact with water. Only the shore power inlet is designed to be mounted in a wet environment. The AC panel needs to be installed in a dry location.

The components used on your new Marine Shore Power System are not ignition protected and are not designed to be installed in an engine room or in an environment where gasoline is stored.

This system is sold as a kit. Any modifications to the any of the components of the kit may cause serious injury or death. EZACDC LLC will not be held responsible for injuries caused by component or kit modifications.

Your shore power system comes with a universal marine 115v/30 amp inlet. Any 115v/30 marine cordset or adaptor will connect directly to this inlet. Never modify a cordset or receptacle to force a connection. Different configurations are for different voltages and amperages.

**IMPORTANT** Disconnect the battery, battery charger, inverter, shore power cable, or any other type of power source on the boat before you begin this project.
Component Locations

Your kit comes with a 10' cord to connect between the shore power inlet and the AC panel assembly. You will need to choose a location for both items that has access in-between and are within 10' of each other. The best location for your AC panel is in your cabin or dry storage area. The best location for your shore power inlet is well above the water line and on the side of your boat where you normally dock.

The OPTIONAL remote outlets are GFCI protected. If you choose to install it in a wet environment, we recommend a splash proof/water proof receptacle cover that can be purchased at any building supply store. This outlet has a 15' pre-wired cord. It plugs directly into the back of your AC panel. Before cutting the hole for your outlet, make sure there is access between your outlet location and the AC panel and that the wire run is 15' or less. Additional remote outlets plug into the other remote outlets as a chain. Please note, only one outlet can plug directly into the AC panel.

The OPTIONAL Galvanic Isolator is very simple to install. It is wired into the green AC grounding wire between the AC inlet and the shore power panel. Find a suitable mounting location for the Galvanic Isolator within 24" of the AC panel assembly.

Cutouts

Your new AC panel is 6 ½" wide and 7 ¼" tall. It requires 4 ¾" of mounting depth for the rear enclosure. You will need to make a rectangular hole that is 5 3/8" wide and 5 and 7/8" tall.

Your new shore power inlet is 3 ¼" wide and 3 ¾" tall. It requires 3" of mounting depth for the rear enclosure. You will need to make a round hole that is 2 ¾" in diameter.
Your new remote outlet is 2 ¾” wide and 4 ½” tall. It requires 3” of mounting depth for the rear enclosure. You will need to make a rectangular hole that is 2 ¼” wide and 3 ¾” tall.

Your OPTIONAL galvanic isolator needs to be installed in a dry location within 18” of the AC panel. Secure it to any suitable bulkhead or panel enclosure using 4 #8x3/4” screws. The galvanic isolator must be mounted close enough to the AC panel to allow the green grounding leads with ring terminals on the galvanic isolator inlet harness to connect.

Electrical Connections

AC Panel Connection: Plug the shore power inlet cord directly into the Snap together plug in the rear of the AC panel enclosure. There are two Snap Together AC connectors on the rear of the enclosure. The AC inlet pigtail will only plug into one of the connectors.

Remote Outlet: Align the colors of the plug and simply snap it together. Like the AC inlet, it will only plug into one of the plugs on the rear of the enclosure.

Green AC to DC Grounding wire: This wire provides an additional level of safety in case of an AC fault on your boat. This wire is permanently connected inside the AC panel. The opposite end needs to be connected to your DC negative. This can be a ground buss (best choice), the engine block (second best choice), or simply the negative on your battery.

Galvanic Isolator OPTIONAL: When the galvanic isolator option is purchased, the AC inlet cord contains two, 18”, 10 awg, green ground wires with ¼” ring terminals installed on them. One connects to each of the two studs on the galvanic isolator. It does not matter which wire connects to either terminal as long as one is connected to each stud.

Panel Installation

Once the electrical connections are complete, simply secure the panel in place using (4) stainless steel #8 x ¾” pan head screws. A 1/8” pilot hole may be required – depending on the material that the panel is mounted into.

Inlet Installation

Drill a 1/8” pilot hole for each of the 4 mounting screws on your new shore power inlet. Secure the inlet in place using (4) stainless steel #8 x ¾” pan head screws.

Outlet Installation

Remove the outlet plate cover using a straight blade screw driver. Insert the outlet into the hole. Turn the Phillips screws in the top right corner and the bottom left corner until the outlet is secure. Re-install the outlet plate cover.

Final details

- Reconnect battery
- Connect shore power
- Confirm that all circuits work properly
- Tie up extra wires with nylon cable ties