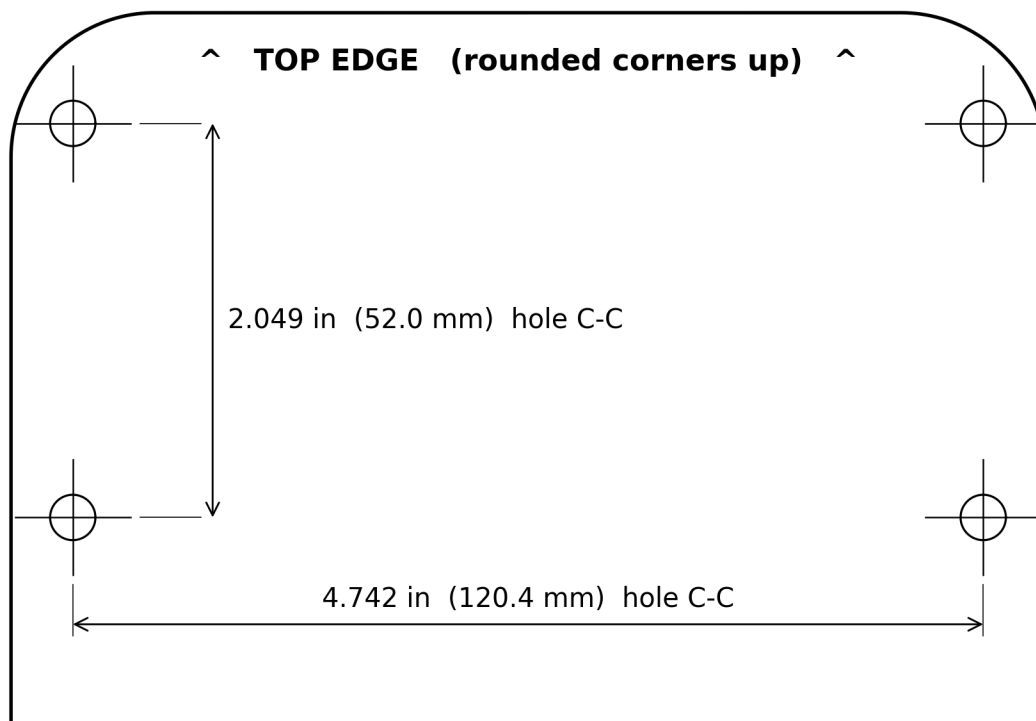




Mounting Location

The regulator has an internal temperature sensor which is used as a proxy for battery temperature. This helps with battery health trending, an optional feature. Therefore, it is preferable (but not required) to mount the regulator in a location that approximates battery temperature. This also minimizes the length of sensitive battery shunt wires.

The board is conformally coated, but not fully waterproof, so **mount it as high above the waterline as possible**- the bilge is not a good choice. Use dielectric grease on all wire plugs to keep moisture out of the connectors.

Drilling Instructions

1. Cut out the template perimeter.
2. Tape template to the mounting wall with rounded corners up, and check level.
3. Lightly mark the border of the template with pencil, and center-punch the four crosses. **The punch centers intentionally do not match the nominal hole centers in the wall dock.** They have been biased to account for expected seasonal wood movement.
4. Drill the four center-punched holes to suit the bulkhead material.
 - Hardwood:* 3/32" (0.094")
 - Plywood or softwood:* ~0.090"
 - Solid fiberglass:* ~0.100" (#39 drill)
 - Thin sheet metal:* the supplied #6 stainless screws are self-tapping — pilot 3/32"–7/64" (0.094–0.109") to suit the gauge
 - Solid or thick metal:* drill #36 (0.106") and tap #6-32, then fasten with #6-32 x 5/8" 316 SS machine screws (not supplied) — or, where you can reach the back, bolt straight through with a washer and nylon-lock nut. You may need to use flanged button head screws, truss head screws, or button head with appropriately sized washers to ensure both hole coverage and clearance to the PCB
5. Mount the dock. Snug up the screws with the dock outline balanced to the pencil marks. **Do not overtighten the screws — the dock should be free to "float" below the screw heads** before it cracks when subjected to large forces such as the seasonal expansion/contraction of dissimilar dock/wall materials.