

Installation

2. Fuse Selection - As illustrated in the diagram, each positive conductor from the charger to the battery/battery bank must be fused. Choose a fuse that is 10 amps higher than the charger output (e.g. 60 amps, choose a fuse of 70 amps). These fuses come in a variety of sizes and types. When choosing the proper fuse consider the connection to the DC cable (inline types for smaller amperages, stud and nut connections for larger amperages) as well as the availability of replacements. Fuses and holders are available through ProMariner or your local marine supply store.

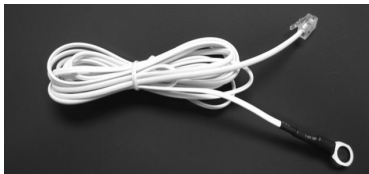
3. Ground - This is extremely important and often overlooked. There is one common battery ground with the positive battery connections on the ProNauticP. There is also a "Chassis Ground".

a. Battery Negative - As shown in the diagram, this is connected to a bus bar or terminal stud (not included) that can handle, at a minimum the amperage of the charger output (1260 = 60 amp minimum). This conductor shall be of equal size to the DC positive conductor chosen above. The battery negative terminals are connected to this bus bar or terminal stud.

b. Bonding Stud A.K.A Chassis Ground - This stud is connected to the boats bonding system as well as the bus bar or terminal stud mentioned above. This conductor is permitted to be one size smaller than the DC positive conductor chosen above; in the case of a DC to the case fault, this conductor is critical in carrying the fault current to trip the fuse or breaker, the AC ground CAN NOT handle high DC amperages.

4. Empty Charger Banks - In the event of an empty charger bank there is no need to use a jumper as done with traditional chargers. Simply leave the DC positive unloaded and the unit will perform correctly.

Remote Temperature Sensor Probe



The ProNauticP comes standard with a temperature probe that is plug and play. The temperature probe must be connected while the charger is powered down or before it is connected to the breaker during installation. For best performance, attach the probe to the negative terminal of the "house" battery/bank.

Probe Connections:

Battery End (ring terminal) – Connect to the NEGATIVE terminal of the battery.

Charger End – Attach the "phone" style plug into the charger port labeled "Temp Sense".

Note: Once the temperature sensor is connected the charger will adjust its charge based on the batteries temperature. This is known as thermal compensation, where the charger will cut back if necessary to increase battery life. This is especially useful for AGM and GEL batteries which are inherently temperature sensitive.



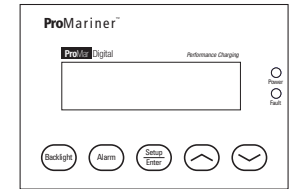
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Optional Remote Installation

A remote panel is available for your ProNauticP Charger.

The remote is provided with a cable and a network-type plug connector. Pay careful attention to the routing of the cable. Avoid sources of heat and possible chafe when routing.

With the charger powered down, connect the cable to the remote port on the ProNauticP.



Pre-Setup Mode Overview

bc (Battery Charger) Default Operation Overview:

This ProNauticP is now constructed with the most power efficient technology available for a battery charger providing both charging and maintaining capability. This overall design and efficiency will reduce the overall operating cost of the unit by conserving AC power when it is not needed, while providing perfect battery maintenance and overall superior DC system performance. The combination of sophisticated hardware and software includes the detection of the presence of one or more batteries connected to the ProNauticP.

NOTE: If there is no battery connected, the battery charger will not operate. See PS (Power Supply) mode selection below.



PS (Power Supply) Selectable Mode Operation Overview:

In the event you would like to use your ProNauticP as a power supply without a battery in the system you may do so simply by selecting the Power Supply (PS) mode during the initial startup phase. This mode will allow the ProNauticP to power 12 Volt or 24 Volt (model specific) devices directly without a battery connected.

Selecting PS (Power Supply) Mode Operation During AC Power On Start Up Overview :

When AC power is applied or when the Self Test function is initiated the numerical displays will first display "8888" to indicate all segments of the displays are working, and then the display will indicate either "bc" (Battery Charger) or "PS" (Power Supply) for 7 seconds. After 7 Seconds the ProNauticP will default to its "bc" (Battery Charger) mode of operation or the previously programmed function.

Note: The ProNauticP Charger will default to the Sealed Battery Type Charge profile (for both "bc" and "PS" modes of operation). You may also select any of the other battery type profiles in this mode. See Selecting Battery Type in the programming section of this manual.

If during the AC Power start-up you would like to select the "PS" (Power Supply) mode of operation you may do so during the 7 seconds window while the display is indicating "bc" by:

1. Push either the or key to toggle between "bc" and "PS"
2. While the display reads "PS" press SETUP/ENTER

