ADJUSTABLE POWER PANEL - HAR365

This Power Panel is an all new concept for supplying DC power in your model boat. It will supply five unique voltage outputs, each adjustable from 1.5 to the maximum voltage available from the power source battery.

- Simply dial in the required voltage by reading the 3-digit LED display.
- The display also reads out the total current draw (amperage) in real time.
- Another feature captures and stores the peak current consumed while the boat is under-way.
- These features eliminate the need for multiple batteries of different voltages and assist in identifying excessive voltage and amperage drain.
- A small switch controls all power for your model using the built in heavy duty relay. The switch is on a long, slim cable so it may be mounted discretely on a convenient part of the boat.

When using a battery rated at less than 12 volts, such as a 7.2 battery pack, the unit operates well but it cannot create more voltage than the battery can produce. Therefore, the distribution of the five different voltage outputs operates according to the available battery voltage.

Setting Up The Power Panel

1. Confirm the umbilical toggle power switch on the long green cable is turned "OFF".
2. Connect a fully charged battery to the power input cables, (Red to Positive, Black to Negative).
3. Each power output is presented at the terminal block as a pair of terminals marked with polarity: Plus+ and Minus-. Be sure to observe polarity for your sensitive electronic devices such as Electronic Speed Controls.
4. For motors requiring speed controls, connect them to the power outputs marked "ESC" on the Panel making sure the positive and negative leads are connected to the proper positive and negative terminals.
5. Turn the Power Panel umbilical switch on.
6. Tap the large red button on top of the Panel until the output "P" light is illuminated. Now the LED display will show the output voltage for terminal "P".
7. Determine the desired voltage and dial out-put "P" on the Panel to that voltage. The voltage level is adjusted (dialed) with a small flat-blade screw driver through the hole located under the related output designation letter.
8. Caution: Dial in LESS voltage than you believe is necessary for delicate accessories such as lights and very small motors BEFORE connecting them, as they may possibly burn out if they are given more voltage than they really can handle.
9. Connect the accessories to the appropriate terminal being careful to align the positive and negative wires to the correct positive and negative output terminals.
10. Follow steps 5-9 using the outputs "Q, R, S, and T" to connect the remaining motors and accessories of different voltages. Remember, you can connect multiple accessories to one output terminal as long as each accessory will take the same voltage. You may also adjust different outputs to the same voltage to support a group of accessories that collectively would exceed the maximum 1.7A current rating of each output.
11. Setup is now complete.

AMPERAGE DRAW

This unit employs two methods to determine amperage draw. The first display is basic real-time amperage draw. The second method records and displays the peak or maximum current that is ever drawn over a period of time while the boat is running. Amperage peaks as short as 0.02 seconds are captured.

To read the real-time amperage draw, push the red button until the "A" LED is illuminated. This number will show the total amperage consumed at that moment.

To record the peak amperage draw over time, push the red button again until the "A" LED blinks. As long as the LED blinks the display is capturing the highest current drawn. Typically the boat is put through its paces with all of the motors and accessories being used and then returned to the dock to note the peak current that was drawn during operation. The peak reading is then cleared and other functions selected by pushing the red button again.

BATTERY VOLTAGE

This unit is also equipped with a battery voltage tester. To display the voltage of your battery, push the red button until the "V" LED is illuminated. The LED will now display the voltage of your battery. Keep in mind that a battery will exhibit a higher than useful voltage when not under load.

SPECIFICATIONS

- 7.2 to 14 volt battery input with #12 silicone cable for battery connection
- Electronic Circuit Breaker fuse with tripped LED "CB"(Circuit Breaker) indicator. **Turn the Panel off and then on again to re-set the breaker**
- Under voltage cut-off to protect Lithium batteries
- Two battery outputs for speed control, up to 20 Amps each
- Five independent power outputs from 1.5V to nearly full battery voltage @ 1.7 Amps max each
- Push button selection to meter battery voltage
- Push button selection of total amperage current or peak amperage draw with LED display
- Three-digit display shows tenth of a volt or amp
- Dimensions: 4-1/4" L (plus 1" for mounting tabs) x 3-3/8" W X 1-1/2" D
- Weight: 6.4 ounces
- Proudly made in the USA