OPERATION

When a Freedom or Link remote control panel is connected to the unit, the switch on the unit or on the remote may be used to turn the unit ON/OFF. If the unit is turned ON using the front panel switch and then turned OFF using a Remote or Link, the unit will not be completely OFF. If the unit will not be used for an extended period of time, turn the unit completely OFF. The unit is completely OFF when the LED display on the unit is OFF.
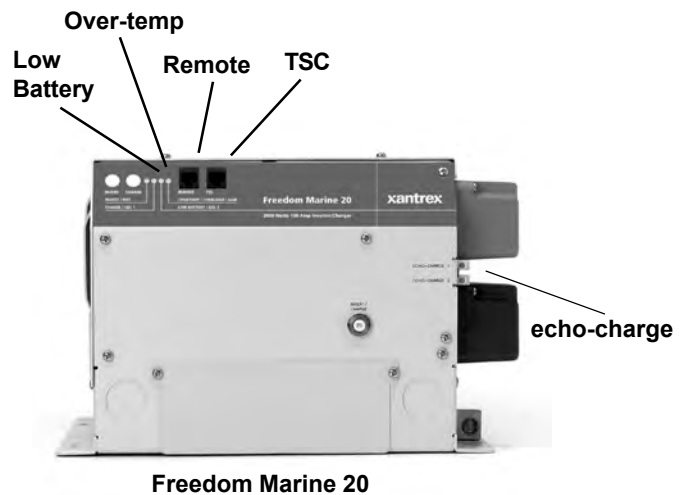
TSC (Temperature Sensitive Charging)

This provides for the connection of a sensor to measure battery temperature for compensated charging. If no sensor is connected the charge voltage levels are set to defaults based on battery type.

echo-charge

The echo-charge feature is incorporated in the Freedom Marine Inverter/Charger to enable multiple battery bank charging of the start or auxiliary battery. Freedom 10, 15, 20 have one active echo-charge output. Freedom 25, 30 have two active outputs.

The echo-charge automatically switches On/Off, charging an auxiliary or start battery without affecting the main house battery bank. The maximum charge current is 15 amps at 14.4 volts.

The echo-charge is a voltage follower, following the three-stage charge modes of the Freedom Marine Charger. The echo-charge senses if the start battery needs charging and diverts a portion of the charging current (up to 15 amps) to the start battery. This method protects the auxiliary battery from overcharging and ensures a long life for the battery.

Over-temp

Low Battery

Remote

TSC

echo-charge

Freedom Marine 20

NOTE: The charger will always follow the house battery setting, even if you mix the type of batteries in your house and start battery bank. If the house battery bank is either GEL or AGM and the start or auxiliary battery is wet/flooded, the charger will follow the GEL or AGM voltage setting.

The echo-charge will turn ON any time the house battery is above 13 volts, regardless of the charging source.

OPTIONAL REMOTES

If using one of the remotes, refer to the installation instructions included with the remote.