

2.0 OPERATION

The model ETC series battery chargers are equipped with an automatic analog circuit design.

The charger will regulate output voltage to less than ± 1 percent from full load to no load with a ± 15 percent supply voltage (115/230 VAC). The output ripple is less than one volt at full load.

The charger has easy front panel access for setting up charger for most battery and load possibilities, also LED's with volt and amp meters for easy monitoring of status of charger operation.

The charger has a built-in temp compensation circuit to permit the longest battery life possible. Also available is a remote voltage sense capability to compensate for voltage drop between charger and battery.

The charger is equipped with a voltage monitor that is independent from charger circuits, if the charger output voltage deviates more than ± 10 percent from cell select settings an isolated relay will drop out. This circuit runs from battery power. The charger also features an adjustable current limit circuit to protect both the charger and battery.

2.1 Front Panel Features and Components

This section describes the features and components that are on the front panel of the battery charger (see Figure 1).

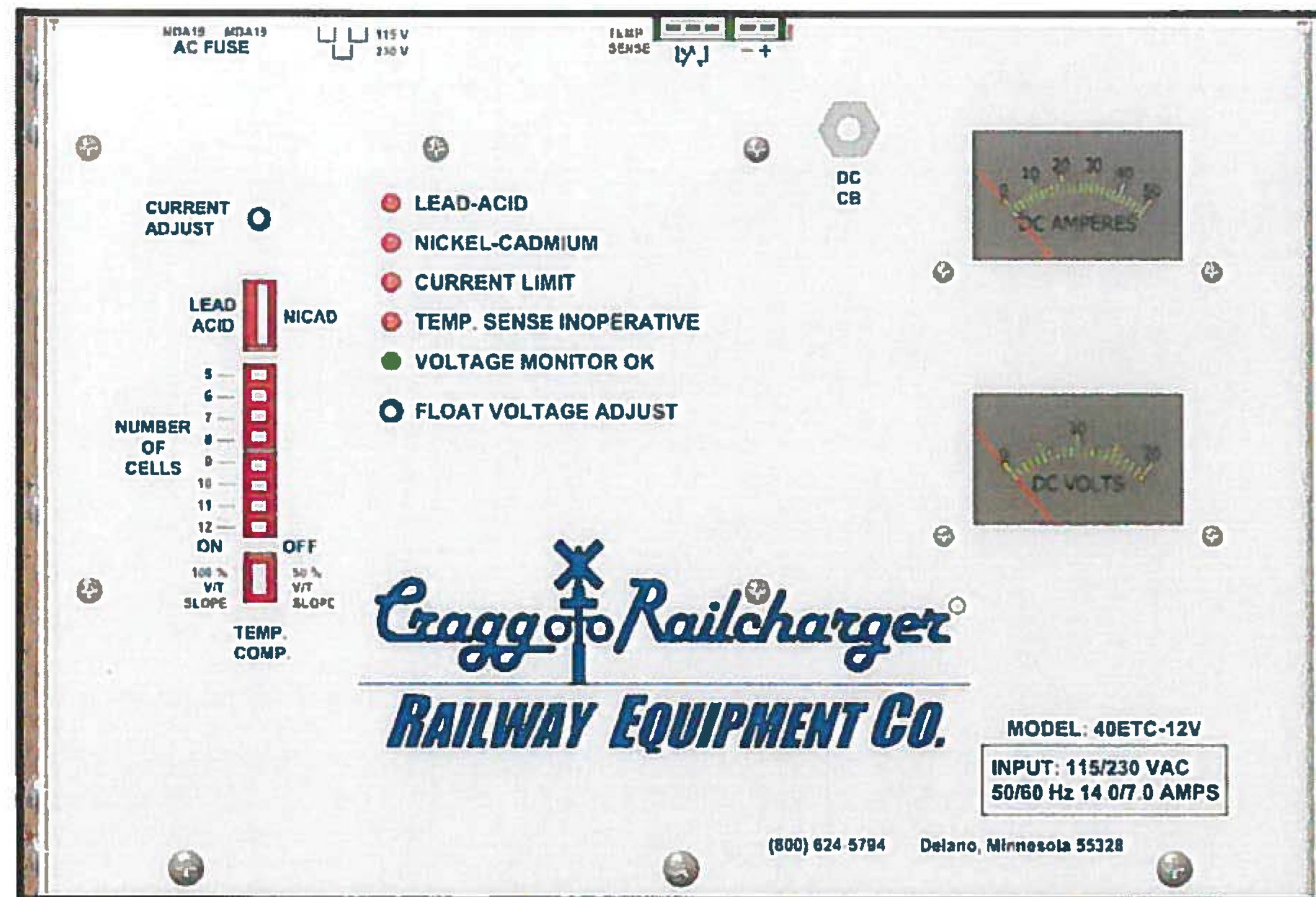


Figure 1. Front Panel of Battery Charger – Example (Model 40ETC-12V)