



# READ ME FIRST

Please visit our PL6800ST Resource page to:

- Register your unit (critical for future support)
- Find replacement parts
- Find great product resources (how to info)

### Scan QR Code



Or Visit: <https://cloreautomotive.com/pl6800st-details/>

## 4 things to know when using the PL6800ST:



### 1. READ THE MANUAL!

Please make sure all personnel using the charger have read the instruction manual and properly familiarize themselves with the operation of the unit and all warnings.



### 2. Please use the following guide when charging:

Reason for Charge	Charge Settings	Battery Size
Warranty Evaluation	Use 100A Charge Setting	Full Size (>60Ah) Passenger Vehicle Batteries
Customer Courtesy	Use 40A Charge Setting	Full Size (>60Ah) Passenger Vehicle Batteries
Customer Courtesy	Use 10A Charge Setting	Small Size (<60Ah) Batteries (Lawn & Garden, Powersports)

**This charger should NOT be used to charge batteries smaller than 25Ah.**



3. If you have a totally dead (0V-1V) battery to be charged, but the charger will not activate due to the extremely low battery State of Charge (SoC), check all connections are correct. If so, you can hold down the START button for 5 seconds to force the charger to start charging. Once the battery exceeds the circuitry threshold, all safety features will activate.



4. **NEVER** operate the charger if the input cable is damaged, the unit itself is damaged, or if there is damage to the output cables, connectors or clamps. Doing so would result in risk of property damage and personal injury. **ALWAYS** replace damaged input or output cables/clamps immediately. **ALWAYS** take a damaged unit out of service immediately.

## USAGE / TROUBLESHOOTING GUIDE

**Complete details are in your operator's manual, but below are a few quick tips for efficient operation.**

### **What happens when I connect a battery and commence a charge routine?**

In most cases, the charger will move through the initial energizing phase and move directly into bulk charge mode. If the battery is severely discharged, the charger will enter Soft Start Mode. This will slow the charging process. If the battery is heavily sulfated (damaged), the charger will enter Battery Repair Mode. This will slow the charging process.

### **When to test?**

Because time is critical, as soon as the green **CHARGE COMPLETE LED** lights, the battery can be tested. Although the amber light is flashing, the battery is at a very high state of charge and can be tested.

### **How to set the charger's display?**

We suggest, when first connecting a battery, that the display is in the "VOLTS" display mode. This allows you see the battery's voltage immediately. If voltage is below 10V, the charger will enter Soft Start Mode. If voltage is below 1V, forced start override is required (see point 3 on front page). Once charging has started, switching over to "% CHARGE" display mode allows the operator to see charging progress.

### **Display goes dark – Energy Save Mode.**

During a charge routine, after 10 minutes of no button presses, the display will power down to save energy. Charging continues through this mode. Simply press the Display button to wake the control panel up.

### **Reverse Polarity Connection**

If the reverse polarity ERROR LED lights, power OFF charger immediately and correct connections.

### **Over-Temperature Condition**

If the charger shows an ERROR light and FAn on the display, the unit has detected an overheat condition and shut down. Allow unit to cool for 10 minutes. Confirm fan operation. Confirm unit is well ventilated with ample clear space around it.

### **Flashing ERROR LED – Over-Voltage Condition**

Battery voltage is >16V. Unit will not allow charging operation. Set display to "VOLTS" display mode and confirm voltage. If the battery is a nominally rated 12V battery, the battery has a critical error. If not 12V, do not use the charger to charge it.

### **Phase Time Out – Flashing ERROR LED + Flashing CHARGING LED**

Charge time exceeded – likely a damaged battery. Confirm battery is a nominally rated 12V battery.

### **Circuit Breaker Trips**

During a 100A charging cycle, maximum input current is required by the charger. The PL6800ST requires a 20A AC circuit (17A max current draw). Make sure other devices on the circuit are not causing an overload of the circuit. Test the charger in 10A charge mode – if it functions properly, suspect other loads or circuit not delivering 20A.

**For additional product support details, scan the QR Code on the front side of this sheet to visit our page dedicated to the PL6800ST.**

