

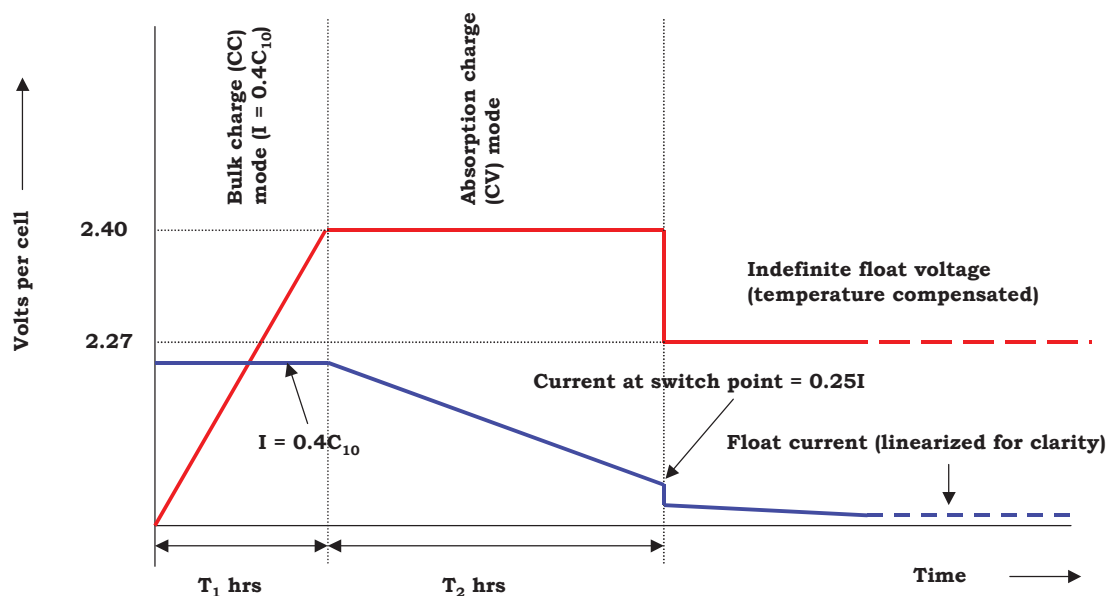


## Charging ODYSSEY® batteries

A critical factor in the proper use of a rechargeable battery is charging. Inadequate or improper charging is a common cause of premature failure of rechargeable lead acid batteries.

To ensure proper charging of your premium ODYSSEY® battery, EnerSys has developed a special charge algorithm that is designed to rapidly and safely charge these batteries. Called the IUU profile (a constant current mode followed by two stages of constant voltage charge), the following diagram shows it in a graphical format. No manual intervention is necessary with chargers having this profile.

**Idealized Schematic of IUU Profile at 25°C (77°F)**



**$T_2$  ends when current drops to 25% of  $I$  or 8 hours, whichever occurs first**

When using IUU profile chargers, we suggest the following charger ratings to get peak performance from your ODYSSEY® battery. Note charger current ratings – the current in the bulk charge mode has to be  $0.4C_{10}$  or more.