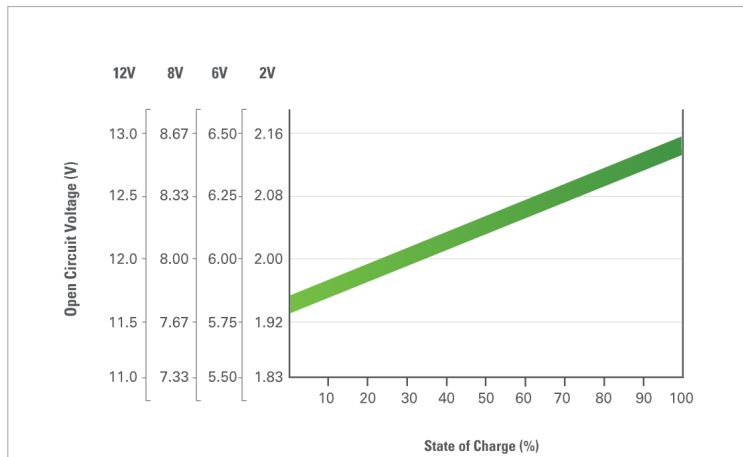
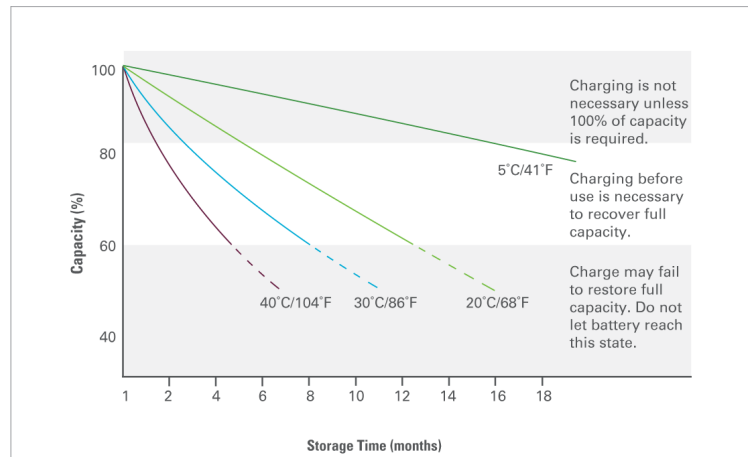


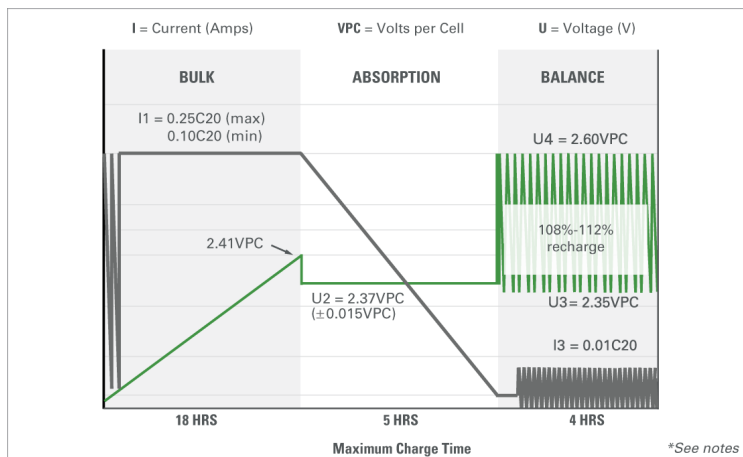
### Open Circuit Voltage in Relations to SOC (20°C)



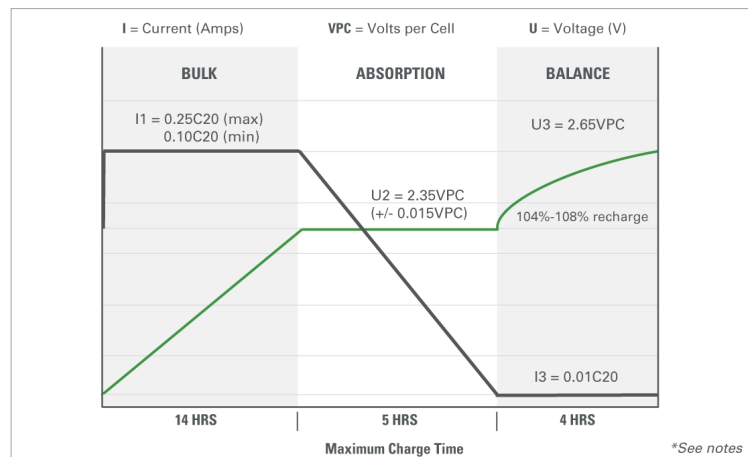
### Self-Discharge Characteristics



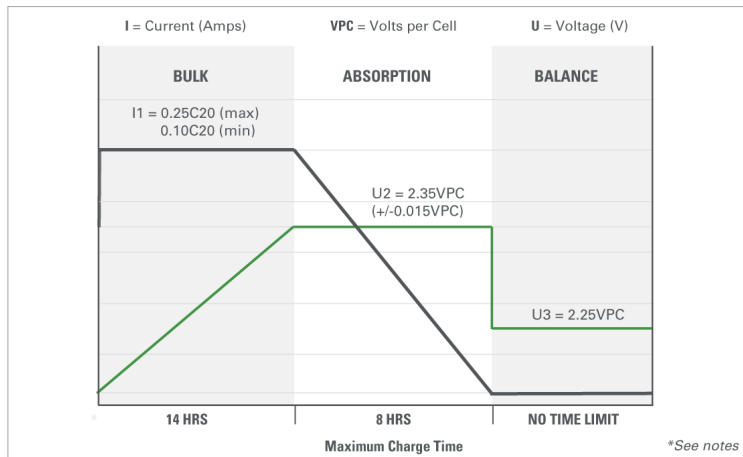
### IUI Pulse Charge Profile



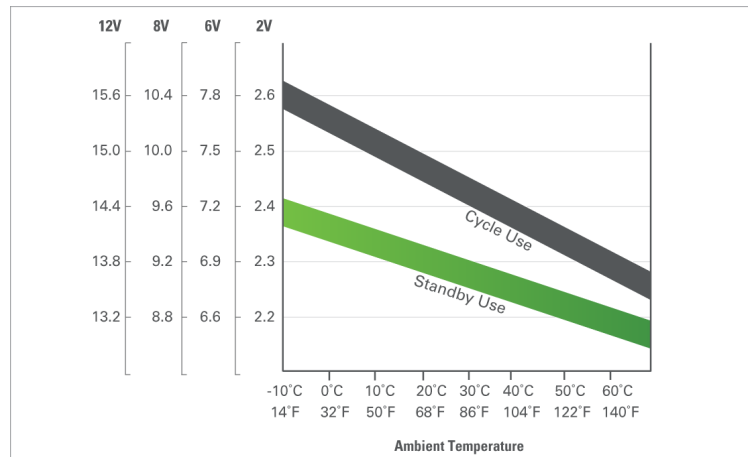
### Constant Current (IUI) Charge Profile



### Voltage Regulated (IUU) Charge Profile



### Relations between Charge, Voltage, and Temperature



#### NOTES

- Due to self-discharge characteristics of lead acid-battery technologies, batteries should be charged within top 6 months of storage to ensure optimum performance, prevent sulphation and permanent capacity loss.
- Charge profile recommendations correspond to battery voltages at 25°C (77°F). For temperatures below, adjust +5mVPC/°C (+3mVPC/°F). Temperatures above, adjust -5mVPC/°C (-3mVPC/°F). Temperature compensated charging helps ensure optimum battery runtime and life performance.
- Charge profile recommendations depend on application and charger. IUI (or IUI with Pulse) is appropriate for applications that require frequent and deep discharges. IUU is appropriate for applications that are on standby and cycled less frequently.
- IUI with Pulse algorithm uses a pulse termination criterion. The finish current is pulsed on and off in order to keep the battery voltage at a minimum while still reaching target overcharge. If average VPC exceeds U2 and the charger output has been on for more than 30 seconds, the output is shut off until VPC falls to U3.
- IUI Charge Profile (if applicable), may have a continuous float phase added (2.27VPC).

