US Battery Charging Procedure

- **V** Three-Stage Charging − US Battery's preferred method
- V Bulk Charge Constant current at 10% of C/20 Ah rating in amps to 2.40 volts/cell
- **V Absorption Charge** − Constant voltage of 2.40 volts/cell to 3% of C/20 Ah rating in amps
- V Finish Charge Constant current at 3% of C/20 Ah rating to 2.55 volts/cell with charge time of 3 hours
- V Equalization Charge Constant voltage of 2.55 volts/cell for an additional 2 hours after a normal charge cycle repeated every 30 days

Charging Procedure	Charge Profile - US 2000 XC2	Charge Profile - US 2200 XC2	Charge Profile - US 8VGC XC2
(Three-Stage Charger)	C/20 Rated Capacity = 216 Ah	C/20 Rated Capacity = 232 Ah	C/20 Rated Capacity = 170 Ah
Bulk Charge	216 Ah x 10% = 21.6A	232 Ah x 10% = 23.2A	170 Ah x 10% = 17A
	2.40 vpc x 3 cells = 7.20 volts	2.40 vpc x 3 cells = 7.20 volts	2.40 vpc x 4 cells = 9.60 volts
Absorption Charge	2.40 vpc x 3 cells = 7.20 volts	2.40 vpc x 3 cells = 7.20 volts	2.40 vpc x 4 cells = 9.60 volts
	216 Ah x 3% = 6.48 amps	232 Ah x 3% = 6.96 amps	170 Ah x 3% = 5.10 amps
Finish Charge	216 Ah x 3% = 6.48 amps	232 Ah x 3% = 6.96 amps	170 Ah x 3% = 5.10 amps
	2.55 vpc x 3 cells = 7.65 volts	2.55 vpc x 3 cells = 7.65 volts	2.55 vpc x 4 cells = 10.20 volts
	terminate after 3 hours*	terminate after 3 hours*	terminate after 3 hours*
Equalization Charge	2.55 vpc x 3 cells = 7.65 volts time period = 2 hours frequency = every 30 days	2.55 vpc x 3 cells = 7.65 volts time period = 2 hours frequency = every 30 days by maximum time (2-4 hr) or dV	2.55 vpc x 4 cells = 10.20 volts time period = 2 hours frequency = every 30 days