

GC2-ECL, Costco GC2 and 903S & 903HC-S Charging Profile

These batteries carry a 12 month warranty (no pro-rates)



Charging State	Current(Amps)	Voltage Regulation				24v	48v
		Volts per Cell	6V	8V	12V		
Bulk	10% of 20hr Ah Rating	2.47	7.4	9.9	14.8	29.6	59.2
Absorption	Taper to 3% of 20 hr Ah Rating and hold for 2-3 hours	2.47	7.4	9.9	14.8	29.6	59.2
Float		2.20 (2.25)	6.6 (6.75)	8.8 (9.0)	13.2 (13.5)	26.4	52.8
Equalization	Total time = 2 hrs.	2.60 (2.70)	7.8 (8.1)	10.4 (10.8)	15.6 (16.2)	31.2	62.4

Note: The "Red" indicates the highest end of charging that we do not want to exceed during recharge

1.Terminal Torque specification: 5/16" Stud = 120-140 inch-pounds (not foot-pounds)

2.Equalization should be done every 4-6 weeks or if specific gravities have a .010 to .015 difference between cells

- We recommend using the following: For every 1° F below 77° F add 0.0028 volts per cell or for every 1 C below 25° C add 0.005 volts per cell to the charger voltage setting.
 - 1: A 12 volt battery @ 70° F. The recommended charging voltage at 77° F is 14.8 volts. The adjusted charging voltage is $14.8 + (6 \text{ cells} * 7 \text{ degrees below} * 0.0028) = 14.92 \text{ volts}$.
 - 2: A 12 volt battery @ 21° C. The recommended charging voltage at 25° C is 14.8 volts. The adjusted charging voltage is $14.8 + (6 \text{ cells} * 4 \text{ degrees below} * 0.005) = 14.92 \text{ volts}$.
- For every 1° F above 77° F subtract 0.0028 volts per cell or for every 1° C above 25° C subtract 0.005 volts per cell to the charger voltage setting.
- 1: A 12 volt battery @ 85° F. The recommended charger voltage at 77° F is 14.8 volts. The adjusted charging voltage is $14.8 - (6 \text{ cells} * 8 \text{ degrees above} * 0.0028) = 14.67 \text{ volts}$.
 - 2: A 12 volt battery @ 29.5° C. The recommended charger voltage at 25° C is 14.8 volts. The adjusted charging voltage is $14.8 - (6 \text{ cells} * 4.5 \text{ degrees above} * 0.005) = 14.67 \text{ volts}$.