TECHNICAL DATA SHEET

12VGCE











CYCLIC

SOLAR

AVAILABLE TERMINAL STYLES:







VENT CAP OPTIONS:







PHYSICAL SPECIFICATIONS

BCI Group Size	Model Description	Nominal Voltage	Length		Width		Container Height		Terminal Height		Weight		Cover & Container Material	Case to Cover Seal Method
			in	mm	in	mm	in	mm	in	mm	lbs	kgs	Guitamer Material	Seal Method
GC12	12VGCE	12	12.92	328	7.06	179	9.70	246	10.53	267	81	36.7	Polypropylene Plastic	Heat Seal

ELECTRICAL SPECIFICATIONS

Ampere Hour Capacity (Ah)								Discharg	e Capacity	Minutes	KWH (kWh)	Internal Resistance	
100 Hr	72 Hr	48 Hr	20 Hr	10 Hr	5 Hr	2 Hr	100A	75A	50A	25A	10A	100 Hr	80°F/27°C
181	176	163	150	127	123	88	42	61	103	243	757	2.172	8.4mΩ

CHARGING INSTRUCTIONS

We specifie the following standard battery charge profile for the 12VGCE deep cycle battery when used in an electric vehicle service: Phase 1: Constant Current (I1) | 1 = highest amperage available < 36 amps

Phase 1: Constant Current (I1)I1 = minimum amperage available > 18

Normal transition to Phase 2 at 2.37 Volts Per Cell. Safety transition to END OF CHARGE of dV/dt < 0V/1 hr, dt = 1 hr. (NEGATIVE SLOPE).

Timeout for Phase 1 = 10 hours.

Phase 2: Constant Voltage (U2)U2 = 2.37 VPC

Normal Transition to Phase 3 at I2 = 5.0 amps or approximate. Safety transition to END OF CHARGE of I dI/dt I < 0.4 amp / 1 hr, dt = 1 hr.

Phase 3: Constant Current (I3) |3 = 5.0 amps or approximate. Normal transition to END OF CHARGE at 115 - 118% of AH returned.

Timeout for charging phases 1 - 3 at 16 hours. Temperature compensation coefficient = +/- 3 mV / °C. Recommended Equalization Charge: Every seven (7) days. 4 additional hours at normal finish rate of 5.0 amps for 4 hours. Safety transition to END OF CHARGE at maximum voltage of 2.7 VPC.