TECHNICAL DATA SHEET

S4-HD



Applications







CYCLIC

SOLAR

MARINE

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	Guillainei Maleilai	Seal Method
	902	S4-HD	6	12.19	310	7.19	183	13.27	337	14.13	359	90	40.8	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
349	328	317	305	259	255	199	123	175	278	620	1785	2.094	7.9mΩ

CHARGING INSTRUCTIONS

We specifie the following standard battery charge profile for the S4-HD deep cycle battery when used in an electric vehicle service:

Phase 1: Constant Current (I1) I1 = highest amperage available < 75 amps

Phase 1: Constant Current (I1)I1 = minimum amperage available > 35 amps

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 = 10.0 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) I3 = 10.0 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 / $^{\circ}$ C. Recommended Equalization Charge: Every seven (7) days. 4 additional hours at normal finish rate of 10.0 amps for 4 hours. Safety transition to END OF CHARGE at maximum voltage of 2.7 VPC.