

EXIDE

Gel technology to store solar energy



Exide launches SOLATRON SGL series with unique GEL Technology specially developed for renewable energy applications. Exide has integrated this technology in accordance with state-of-the-art manufacturing and quality procedure to satisfy environmental, economic & technical demands.

A key to a successful Solar Photovoltaic System is the careful integration of all components and proper selection of battery. The Batteries are exposed to variable temperature, insufficient charging, daily cycling as well as operating in Partial State of Charge condition. Such applications need legendary toughness with reliability of tubular and maintenance free convenience of VRLA and nothing can be better than Exide SOLATRON GEL series.

Applications:

- Solar Lantern • Solar home & street lighting • Solar photovoltaic system • Solar power plant • Hybrid system power back-up

Benefits:

- Sealed maintenance free – no topping up ever • Excellent deep discharge capability • High recharge efficiency • Superior cycle life
- Less sensitive to temperature • Long shelf life • Greater design life – best value for money • Supplied factory charged

Technical Specification

Battery Type	Nominal Voltage (V)	Rated Capacity (Ah) at 27°C		Weight (Kg.) ± 5%	Internal Resistance (m-ohm)	(Dimensions in mm)			Max. Discharge Current
		C10 1.75V/cell	C20 1.75V/cell			Length ± 5	Width ± 5	Height ± 5	
6SGL 40	12	40	45	19	10.0	350	166	174	240
6SGL 75	12	75	82	33.5	7.0	407	173	235	450
6SGL 100	12	100	105	44	6.0	557	172	240	600
6SGL 150	12	150	165	64	5.0	533	250	240	900
6SGL 200	12	200	220	84	4.0	428	287	400	1200

Recharging Characteristics of SOLATRON GEL Batteries

Model of Operation	Voltage Setting per mono-block unit for ambient temperature 25-30°C	Current Setting
Float Voltage	13.6V ± 0.1V	Maximum : 20% of the battery Ah capacity Minimum : 10% of the battery Ah capacity
Bulk Voltage	14.4V ± 0.1V	
Load Reconnect Voltage	13.2V ± 0.1V	
Low Voltage Disconnect	11.4V ± 0.1V	
Recharge Factor	106% of Discharge Ah	

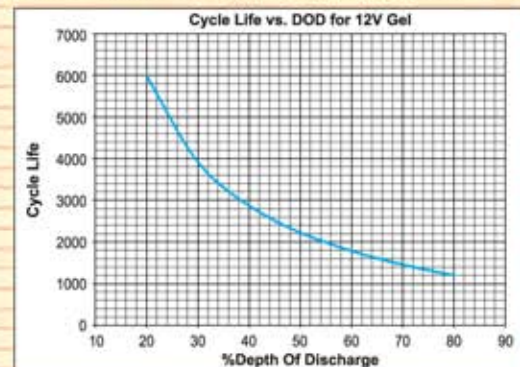
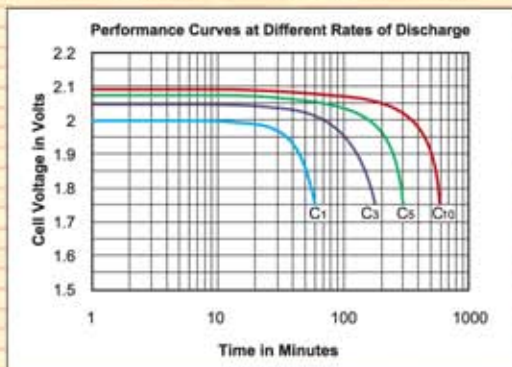
Temperature Compensation : (reference 25°C)

Float : -18mV/°C/12V unit

Cyclic : -30mV/°C/12V unit

NOTE:

- Batteries are dispatched from factory at minimum 90% state of charge
- Full capacity is achieved after a minimum ten numbers of charge-discharge cycles at full depth or 3 months of continuous float operation



Please address your queries & comments to :

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