

Solar Series SLA Battery

Solar Series

Bosfa Solar Series Valve-regulated Lead Acid batteries use particular alloy and material technology design to ensure a excellent performance in various environments, especially high and low temp. Bosfa Solar series batteries is optimal for storage and conversion of photovoltaic energy and wind energy.

Application

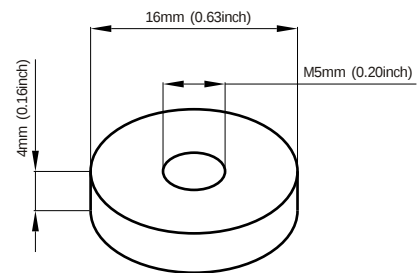
Photovoltaic system
Alternative Energy System
Electric Utility
Outdoor control Equipment
Railroad Utility

General Features

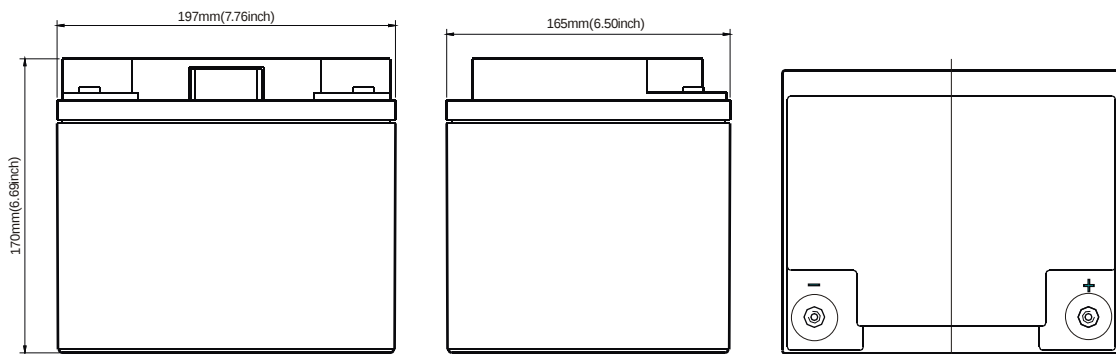
Sealed and maintenance free operation.
Non-Spillable construction design.
ABS containers and covers(UL94HB, UL94V-0) optional.
Safety valve installation for explosion proof.
High quality and high reliability.
Exceptional deep discharge recovery performance.
Low self discharge characteristic.
Flexibility design for multiple install positions.

Construction

Component	Raw material	Sealant	Epoxy Resin
Positive	Lead dioxide	Safety valve	EPDR
Negative	Lead	Terminal	Copper
Container	ABS	Separator	AGM
Cover	ABS	Electrolyte	sulfuric acid

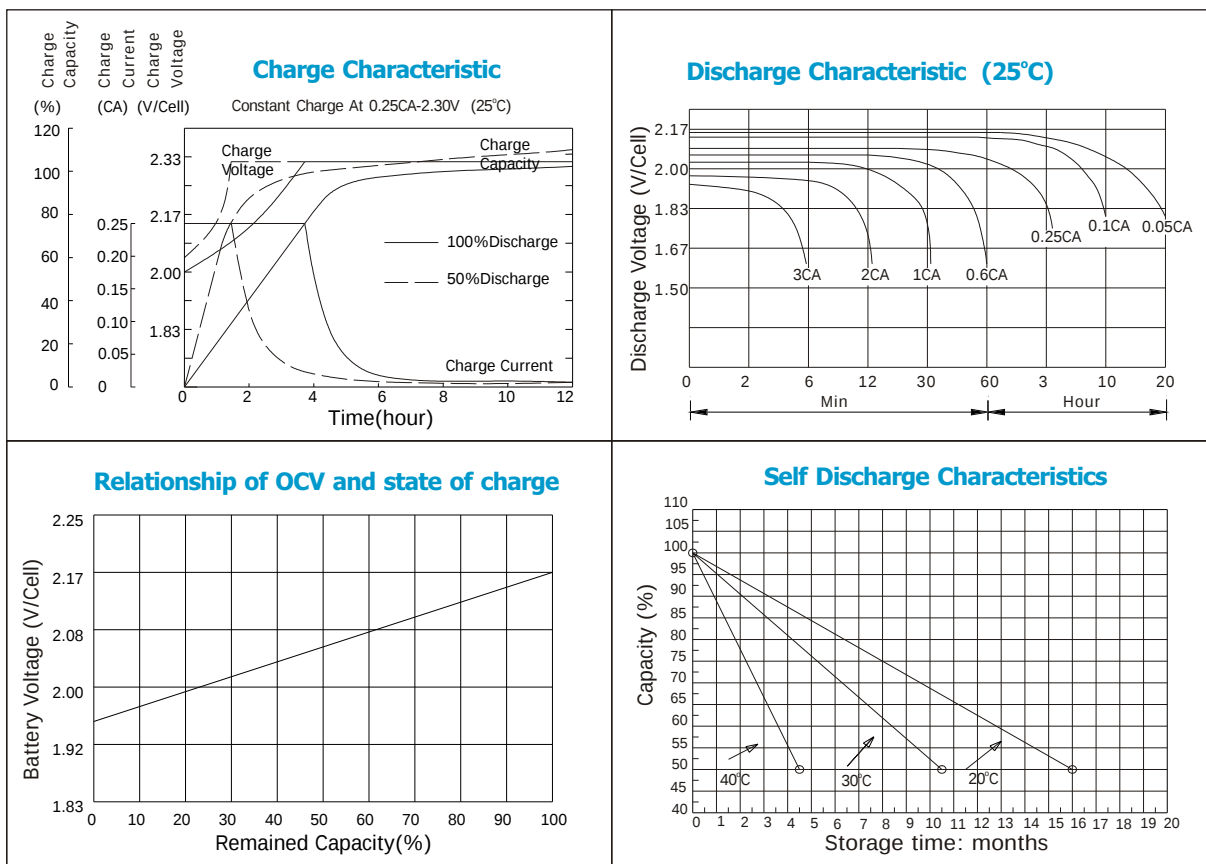


Terminal Dimensions



Battery Model	Solar 12-38			
Designed Floating Life	8 Years			
Capacity(25°C)	20HR(1.95A,1.75V)	10HR(3.8A,1.75V)	5HR(6.46A,1.75V)	1HR(22.8A,1.75V)
	39AH	38AH	32.3AH	22.8AH
Dimensions	Length	Width	Height	Total Height
	197mm(7.76inch)	165mm(6.50inch)	170mm(6.69inch)	170mm(6.69inch)
Approx. Weight	14 Kg (30.87 lbs)			
Internal Resistance	Full charged at 25°C: 0.0095 Ohm			
Self Discharge	3% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-15V(-30mV/ °C), max. Current: 9.5A		13.6-13.8V(-20mV/ °C)	

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Constant current discharge ratings-amperes at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	133	91.2	66.5	39.9	25.1	10.4	7.25	4.03	2.00
1.67V	120	83.2	64.6	38.8	25.0	10.3	7.19	3.97	2.00
1.70V	114	80.2	62.3	38.0	25.0	10.3	7.19	3.94	2.00
1.75V	101	74.1	58.9	37.2	24.7	10.3	7.13	3.87	1.99
1.80V	91.2	68.8	56.2	36.1	24.4	10.2	7.07	3.80	1.92
1.85V	69.2	56.6	48.6	33.2	24.1	10.2	7.02	3.74	1.80

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	219	151	118	75.2	49.4	19.9	13.9	8.06	4.01
1.67V	208	149	117	73.7	47.8	19.9	13.9	7.94	3.99
1.70V	194	146	115	71.8	46.5	19.9	13.9	7.88	3.99
1.75V	181	136	108	69.9	46.1	19.6	13.7	7.74	3.97
1.80V	162	127	101	68.0	45.3	19.3	13.5	7.61	3.83
1.85V	130	105	89	62.3	44.9	19.3	13.3	7.47	3.60

