

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

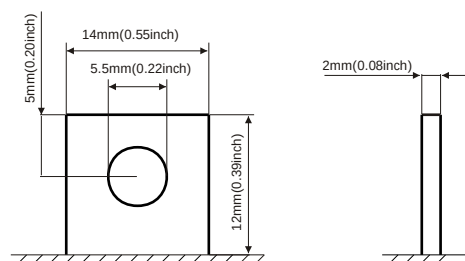
Photovoltaic system
Alternative Energy System
Electric Utility
Outdoor control Equipment
Railroad Utility

General Features

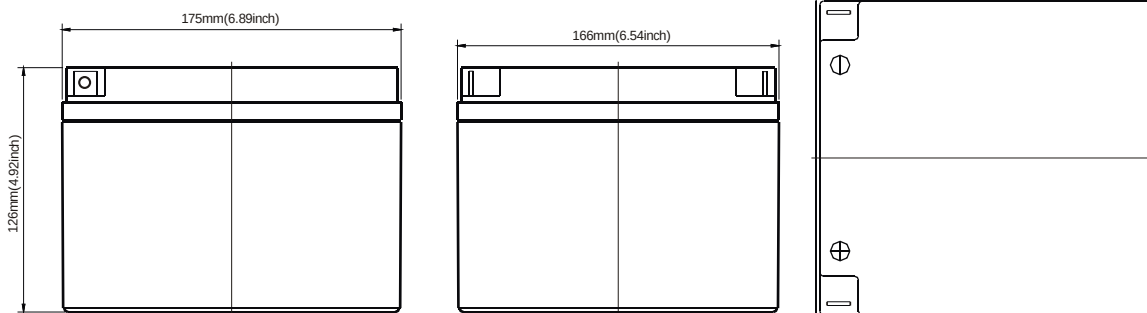
Sealed and maintenance free operation.
Non-Spillable construction design.
ABS containers and covers(UL94HB, UL94V-0) optional.
Safety valve installation for explosion proof.
High quality and high reliability.
Exceptional deep discharge recovery performance.
Low self discharge characteristic.
Flexibility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

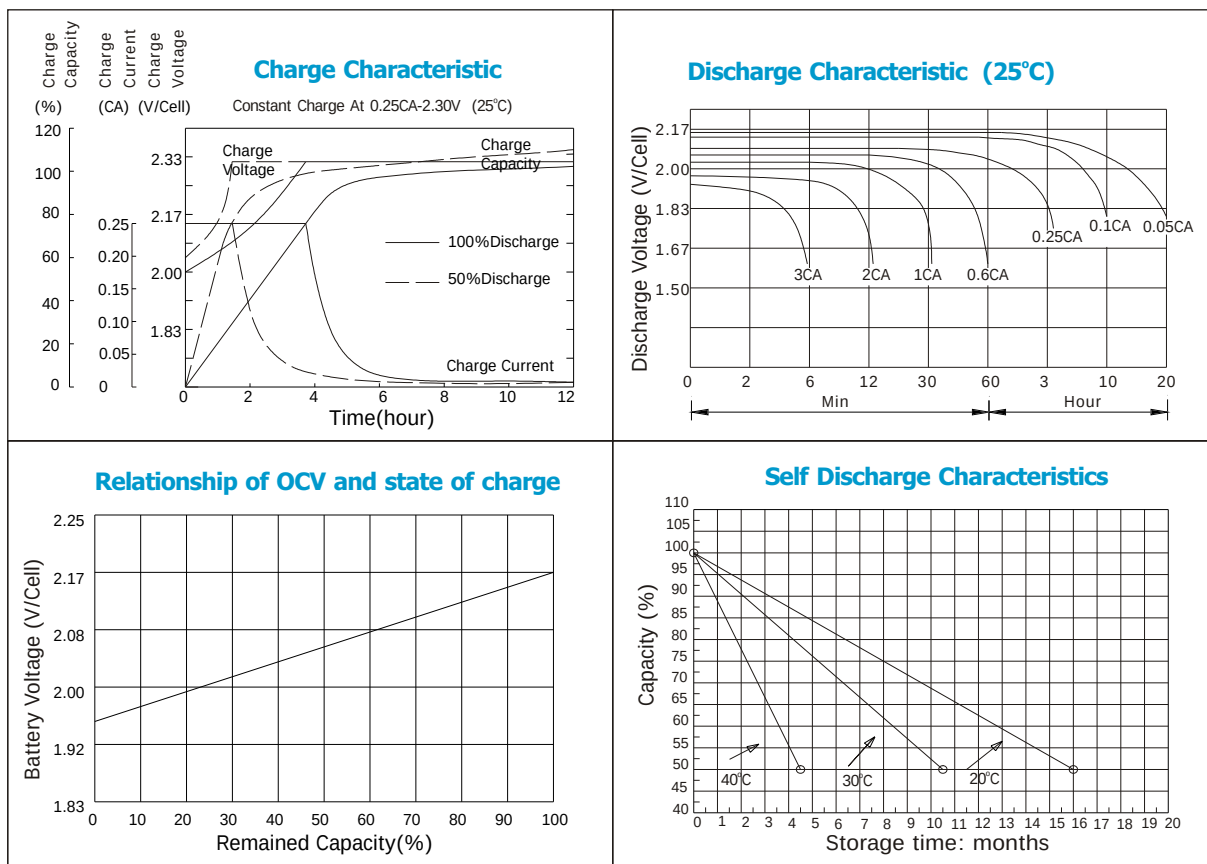


Terminal Dimensions



Battery Model	Solar 12-24			
Designed Floating Life	8 Years			
Capacity(25°C)	20HR(1.25A,1.75V)	10HR(2.4A,1.75V)	5HR(4.08A,1.75V)	1HR(14.5A,1.75V)
	25AH	24AH	20.4AH	14.5AH
Dimensions	Length	Width	Height	Total Height
	175mm(6.89inch)	166mm(6.54inch)	125mm(4.92inch)	125mm(4.92inch)
Approx. Weight	8.4Kg (18.52 lbs)			
Internal Resistance	Full charged at 25°C: 0.012 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: 6A		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	84.0	57.6	42.0	25.2	15.8	6.55	4.58	2.55	1.26
1.67V	75.6	52.6	40.8	24.5	15.8	6.53	4.54	2.51	1.26
1.70V	71.8	50.6	39.4	24.0	15.8	6.53	4.54	2.49	1.26
1.75V	63.8	46.8	37.2	23.5	15.6	6.48	4.50	2.44	1.25
1.80V	57.6	43.4	35.5	22.8	15.4	6.46	4.47	2.40	1.21
1.85V	43.7	35.8	30.7	21.0	15.2	6.43	4.43	2.36	1.18

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	138	95.5	74.4	47.5	31.2	12.6	8.76	5.09	2.53
1.67V	131	94.3	73.7	46.6	30.2	12.6	8.76	5.01	2.52
1.70V	123	91.9	72.5	45.4	29.4	12.6	8.76	4.97	2.52
1.75V	114	85.9	68.2	44.2	29.1	12.4	8.66	4.89	2.51
1.80V	102	79.9	64.1	43.0	28.6	12.2	8.52	4.80	2.42
1.85V	82.1	66.2	55.9	39.4	28.3	12.2	8.40	4.72	2.36

