

Electric Vehicle SLA Battery

EVX SERIES

Bosfa EVX Series batteries are designed to have a large amount of stored current discharged between charging sessions, with very heavy non-porous battery plates to withstand repeated major discharging and charging cycle (deep cycles). The Bosfa EVX batteries uses a different chemistry for the plates active paste material, and a slightly stronger electrolyte than normal battery electrolyte, which allows for a much longer life in deep cycle applications.

Application

- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools

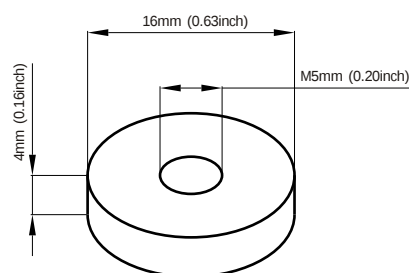
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS
- Pvs

General Features

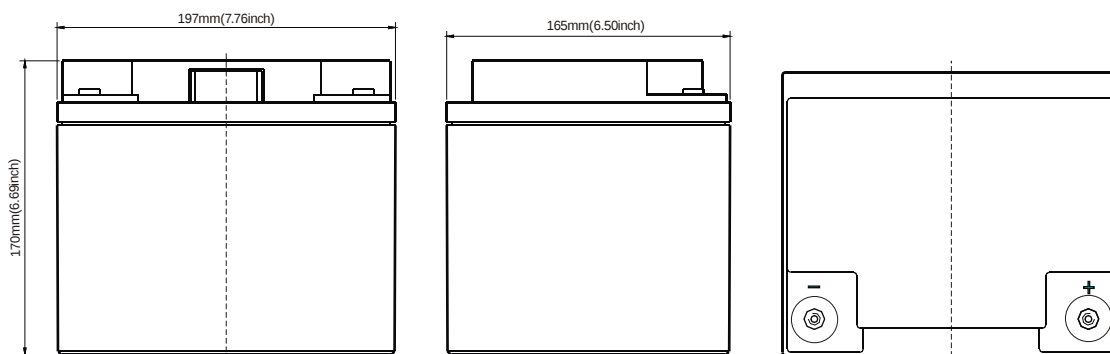
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFibre glass
- ElectrolyteSulfuric acid

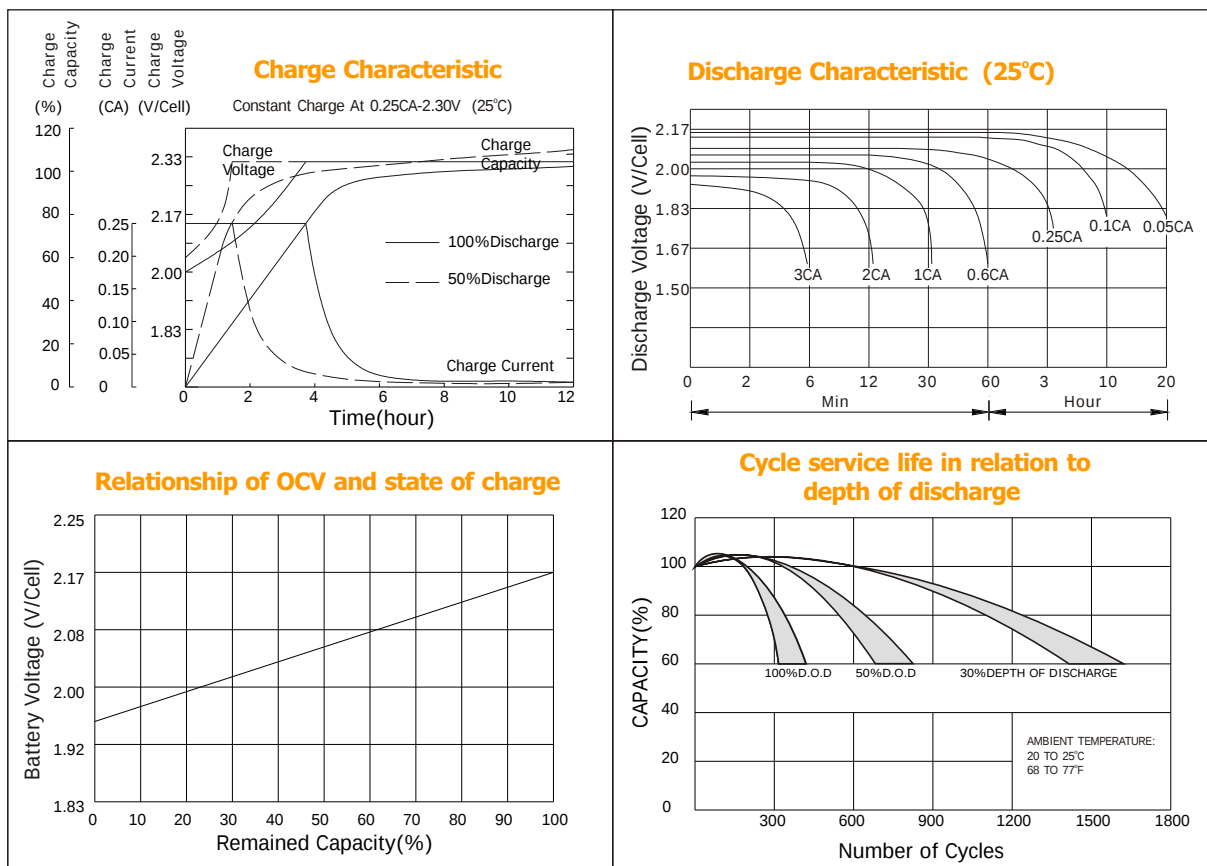


Terminal Dimensions



Battery Model	EVX12-48			
Designed Cycle Life	> 350 cycles @ 100% DOD			
Capacity(25°C)	20HR(2.5A,1.75V)	10HR(4.8A,1.75V)	5HR(8.1A,1.75V)	1HR(28.8A,1.75V)
	50AH	48AH	40.5AH	28.8AH
Dimensions	Length	Width	Height	Total Height
	197mm(7.76inch)	165mm(6.50inch)	170mm(6.69inch)	170mm(6.69inch)
Approx. Weight	14.6Kg (32.19 lbs)			
Internal Resistance	Full charged at 25°C: 0.009 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: 12A		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	168	115	84.0	50.4	31.7	13.1	9.16	5.09	2.53
1.67V	151	105	81.6	49.0	31.6	13.1	9.08	5.01	2.52
1.70V	144	101	78.7	48.0	31.5	13.1	9.08	4.97	2.52
1.75V	128	93.6	74.4	47.0	31.2	13.0	9.01	4.89	2.51
1.80V	115	86.9	71.0	45.6	30.8	12.9	8.94	4.80	2.42
1.85V	87.4	71.5	61.4	42.0	30.5	12.9	8.86	4.72	2.37

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	277	191	149	95.0	62.4	25.2	17.5	10.2	5.06
1.67V	263	189	147	93.1	60.3	25.2	17.5	10.0	5.04
1.70V	245	184	145	90.7	58.8	25.2	17.5	9.95	5.04
1.75V	228	172	136	88.3	58.2	24.8	17.3	9.78	5.02
1.80V	205	160	128	85.9	57.2	24.4	17.0	9.61	4.84
1.85V	164	132	112	78.7	56.7	24.3	16.8	9.44	4.74

