

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

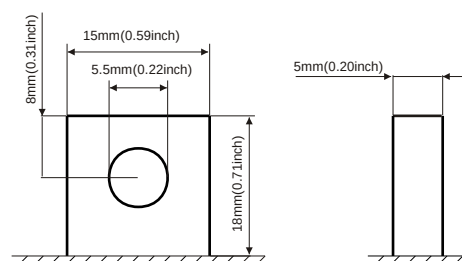
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS
- Pvs

General Features

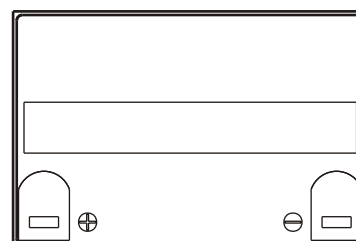
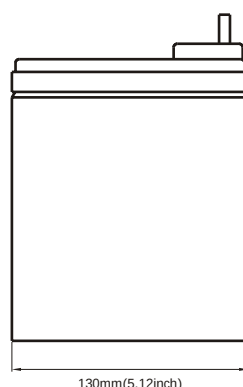
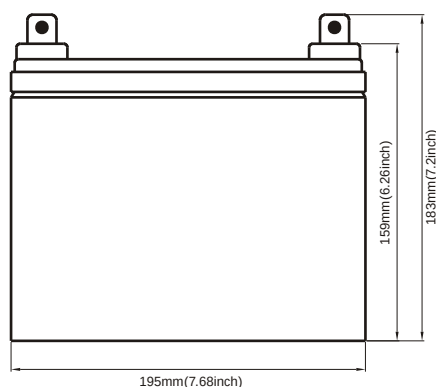
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

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

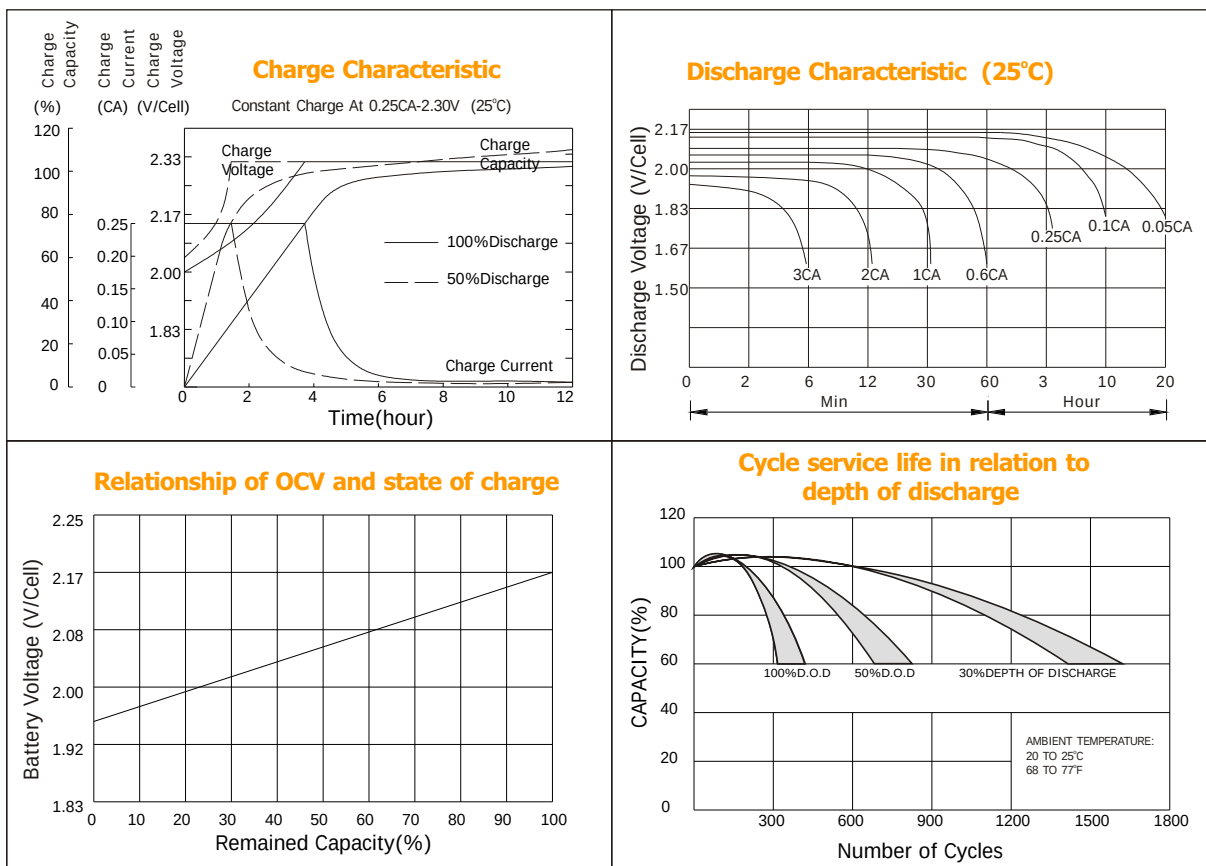


Terminal Dimensions



Battery Model	EVX12-40			
Designed Cycle Life	> 350 cycles @ 100% DOD			
Capacity(25°C)	20HR(2.25A,1.75V)	10HR(4.0A,1.75V)	5HR(6.8A,1.75V)	1HR(26A,1.75V)
	45AH	40AH	34AH	26AH
Dimensions	Length	Width	Height	Total Height
	195mm(7.68inch)	130mm(5.12inch)	159mm(6.26inch)	183mm(7.2inch)
Approx. Weight	12.6Kg (27.78lbs)			
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: 10A		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	165	103	77.6	47.4	28.4	12.5	7.63	4.15	2.24
1.67V	155	97.6	74.7	45.3	28.1	12.0	7.47	4.11	2.17
1.70V	142	94.1	72.9	41.2	27.2	11.2	7.31	4.10	2.13
1.75V	139	91.2	70.6	39.1	25.9	10.8	7.15	4.08	2.08
1.80V	125	87.1	64.1	36.2	24.3	10.4	6.72	4.00	2.02
1.85V	110	82.9	57.6	33.4	22.6	10.0	6.29	3.95	1.96

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	290	186	142	85.3	51.3	22.1	12.9	8.53	4.48
1.67V	280	181	140	83.5	51.0	21.4	12.8	8.48	4.32
1.70V	264	179	139	78.2	50.0	20.5	12.7	8.43	4.27
1.75V	265	179	138	75.9	49.2	20.0	12.6	8.32	4.16
1.80V	243	176	128	72.4	46.3	19.4	12.2	8.21	4.05
1.85V	220	167	116	67.8	43.6	18.8	11.8	8.11	3.89

