

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**

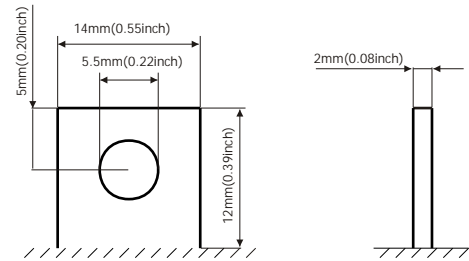
- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS
- Pvs

**General Features**

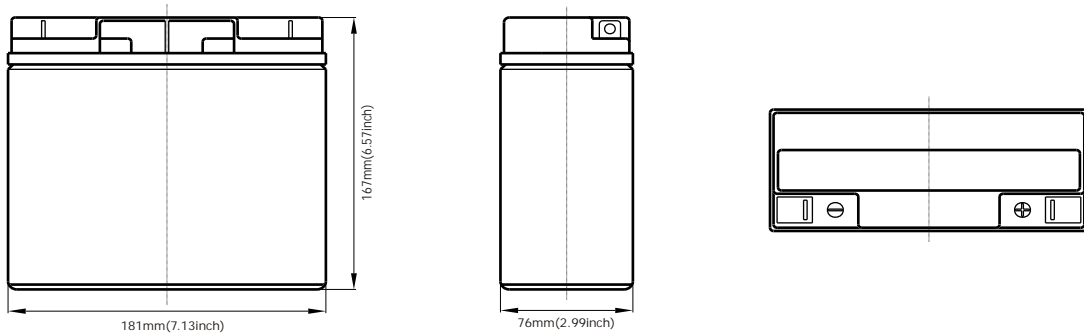
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

**Construction**

- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve ....EPDR
- Terminal .....Copper
- Separator .....Fibre glass
- Electrolyte .....Sulfuric acid

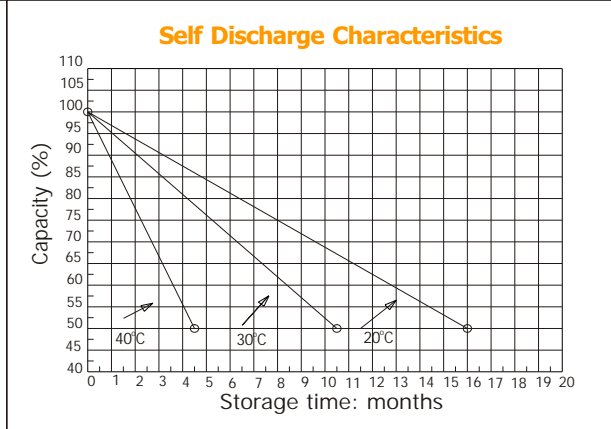
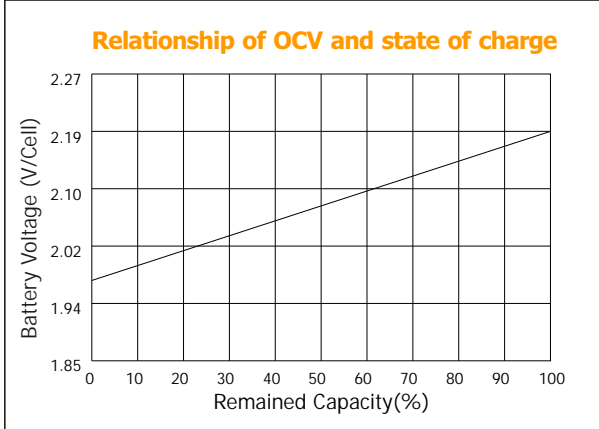
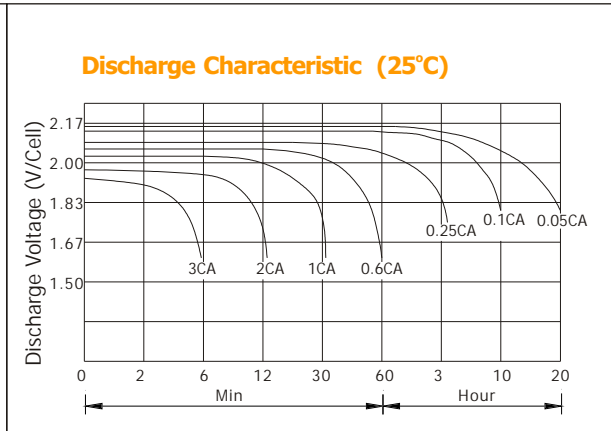
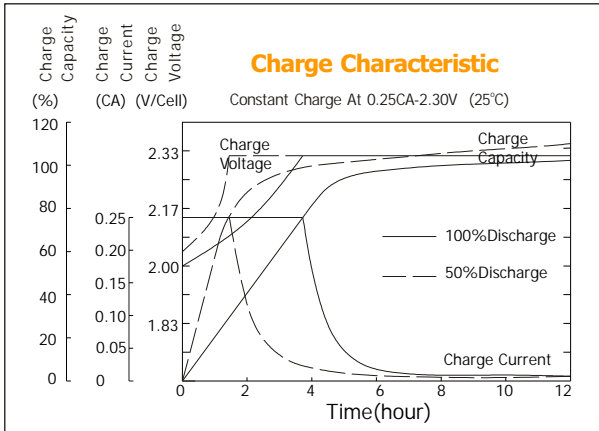


**Terminal Dimensions**



Battery Model	EVX12-22			
Designed Floating Life	> 350 cycles @ 100% DOD			
Capacity(25°C)	20HR(1.2A,1.75V)	10HR(2.2A,1.75V)	5HR(4A,1.75V)	1HR(15.5A,1.75V)
	24AH	22AH	20AH	15.5AH
Dimensions	Length	Width	Height	Total Height
	181mm(7.13inch)	76mm(2.99inch)	167mm(6.57inch)	167mm(6.57inch)
Approx. Weight	6.85Kg (15.1 lbs)			
Internal Resistance	Full charged at 25°C: 0.013 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: 6.6A		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	85.9	53.5	40.3	24.6	15.6	6.86	4.19	2.35	1.23
1.67V	80.7	50.7	38.8	23.5	15.4	6.60	4.11	2.32	1.19
1.70V	73.9	48.9	37.9	21.4	15.0	6.16	4.02	2.31	1.17
1.75V	72.5	47.4	36.7	20.3	14.3	5.95	3.93	2.28	1.15
1.80V	64.8	45.2	33.3	18.8	13.3	5.72	3.70	2.25	1.13
1.85V	57.2	43.1	29.9	17.3	12.4	5.51	3.46	2.22	1.11

**Constant power discharge ratings-watts at 25°C**

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	151	96.6	73.6	44.3	28.2	12.2	7.09	4.69	2.46
1.67V	145	94.1	72.7	43.4	28.0	11.8	7.06	4.66	2.38
1.70V	137	93.2	72.1	40.6	27.5	11.3	6.97	4.63	2.35
1.75V	138	92.9	71.5	39.4	27.0	11.0	6.91	4.58	2.29
1.80V	126	91.5	66.3	37.6	25.5	10.7	6.69	4.52	2.23
1.85V	114	86.8	60.1	35.2	24.0	10.4	6.48	4.46	2.14

