

EVX SERIES

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 IBT's 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

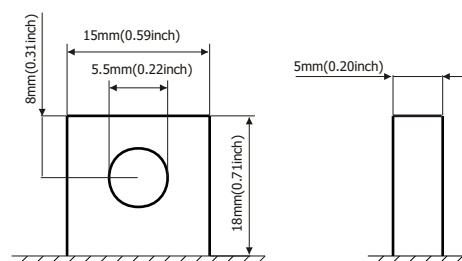
- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS
- Pvs

General Features

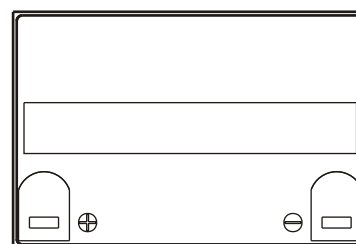
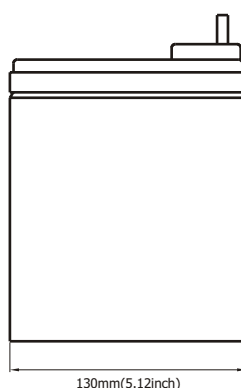
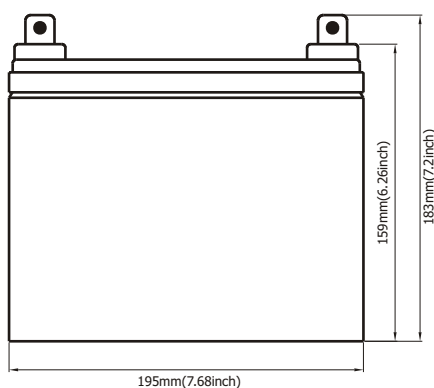
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

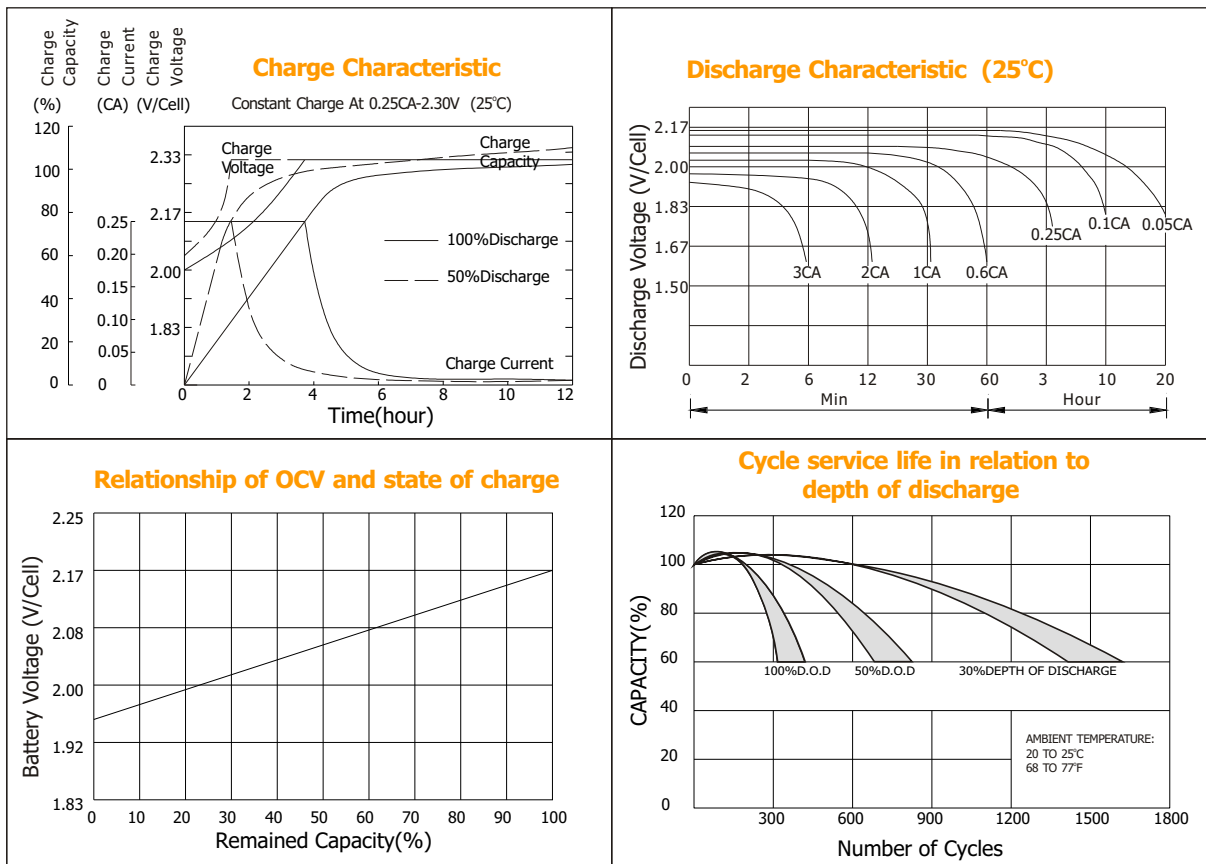
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFibre glass
- ElectrolyteSulfuric acid



Terminal Dimensions



Battery Model	EVX12-33			
Designed Cycle Life	> 350 cycles @ 100% DOD			
Capacity(25°C)	20HR(1.8A,1.75V)	10HR(3.3A,1.75V)	5HR(5.2A,1.75V)	1HR(21A,1.75V)
	36AH	33AH	26AH	21AH
Dimensions	Length	Width	Height	Total Height
	195mm(7.68inch)	130mm(5.12inch)	159mm(6.26inch)	183mm(7.2inch)
Approx. Weight	11.8 Kg (26.02lbs)			
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: 8.25A		13.6-13.8V(-20mV/ °C)	



Constant current discharge ratings-amperes at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	149	92.9	70.1	42.7	25.1	11.0	6.19	3.37	1.82
1.67V	140	88.1	67.4	40.9	24.8	10.6	6.06	3.34	1.76
1.70V	128	84.9	65.8	37.2	24.1	9.90	5.93	3.33	1.73
1.75V	126	82.3	63.7	35.3	22.9	9.57	5.80	3.31	1.69
1.80V	113	78.6	57.9	32.7	21.5	9.20	5.46	3.25	1.64
1.85V	99.4	74.8	52.0	30.1	20.0	8.87	5.11	3.20	1.59

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	262	168	128	77.0	45.4	19.6	11.4	6.93	3.64
1.67V	253	163	126	75.4	45.1	19.0	11.3	6.89	3.51
1.70V	238	162	125	70.6	44.2	18.1	11.2	6.84	3.47
1.75V	239	161	124	68.5	43.5	17.7	11.1	6.76	3.38
1.80V	219	159	115	65.3	41.0	17.2	10.8	6.67	3.29
1.85V	199	151	104	61.1	38.5	16.6	10.4	6.58	3.16

