

SLA BATTERY

BT9-12EVX

12V9AH

EVX SERIES

IBT's 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

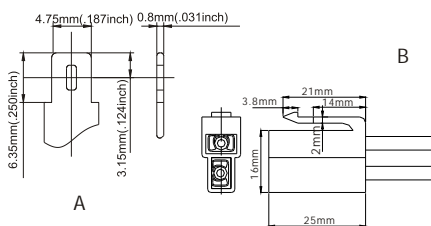
- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS
- Pvs

General Features

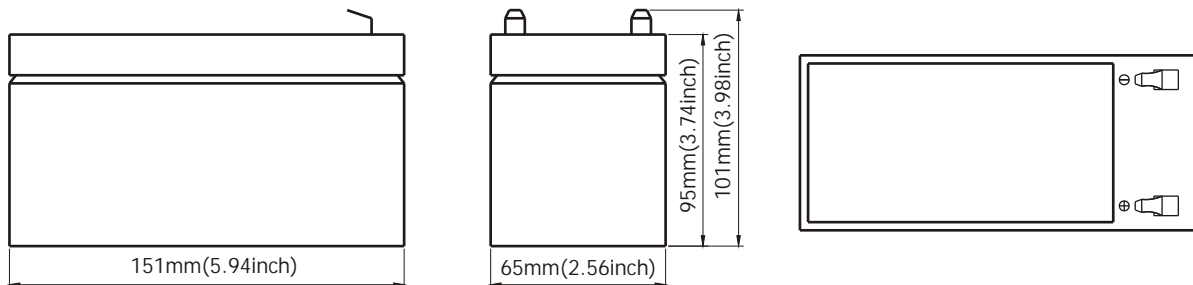
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

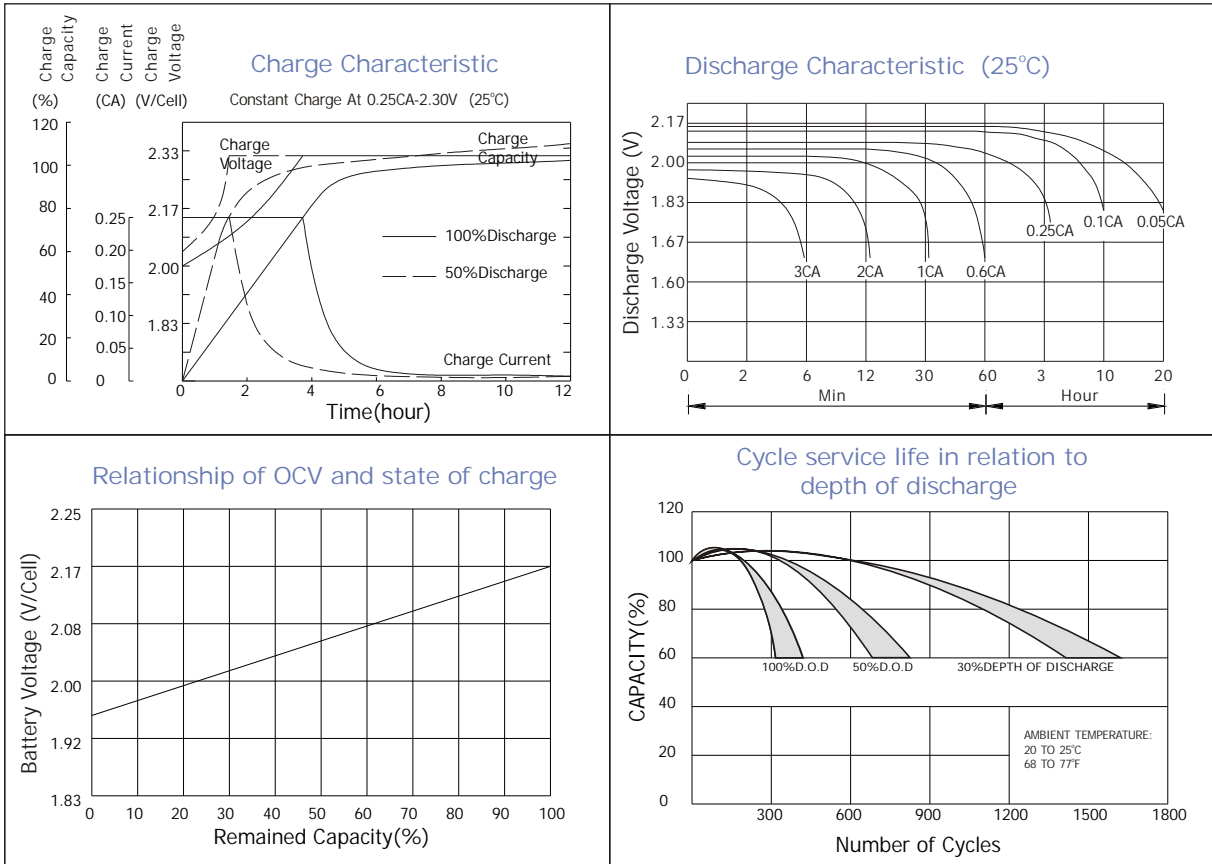


Battery Model	BT9-12 EVX			
Designed Cycle Life	> 350 cycles @ 100% DOD			
Capacity(25°C)	20HR(0.45A,1.75V)	10HR(0.8A,1.75V)	2HR(3.6A,1.75V)	1HR(5A,1.75V)
	9AH	8AH	7.2AH	5AH
Dimensions	Length	Width	Height	Total Height
	151mm(5.95inch)	65mm(2.60inch)	95mm(3.72inch)	101mm(3.98inch)
Approx. Weight	2.6Kg (5.73 lbs)			
Internal Resistance	Full charged at 25°C: 0.019 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: 2.1A		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	31.3	19.4	14.7	8.94	5.69	2.50	1.53	0.85	0.45
1.67V	29.3	18.4	14.1	8.56	5.61	2.40	1.49	0.85	0.43
1.70V	26.9	17.8	13.8	7.78	5.44	2.24	1.46	0.84	0.43
1.75V	26.3	17.2	13.3	7.39	5.18	2.17	1.43	0.83	0.42
1.80V	23.6	16.4	12.1	6.84	4.85	2.08	1.34	0.82	0.40
1.85V	20.8	15.7	10.9	6.30	4.52	2.01	1.26	0.81	0.39

Constant power discharge ratings-watts at 25°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	54.8	35.1	26.8	16.1	10.3	4.43	2.58	1.71	0.90
1.67V	52.9	34.2	26.4	15.8	10.2	4.29	2.57	1.70	0.86
1.70V	49.8	33.9	26.2	14.8	10.0	4.10	2.53	1.69	0.85
1.75V	50.1	33.8	26.0	14.3	9.83	4.00	2.51	1.66	0.83
1.80V	45.9	33.3	24.1	13.7	9.27	3.88	2.43	1.64	0.81
1.85V	41.6	31.6	21.9	12.8	8.71	3.77	2.36	1.62	0.78

