



### General Series

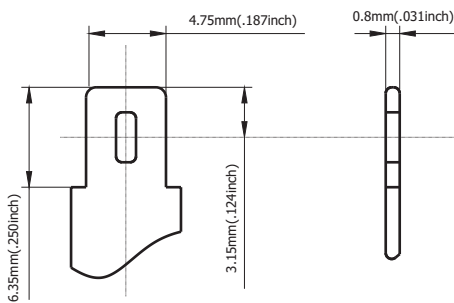
General Series Valve Regulated Lead Acid batteries are designed with AGM (Absorbent Glass Mat) technology, high performance plates and electrolyte to gain extra power output for common power backup system applications widely used in the field of UPS, Emergency Lighting System.

### Application

- Alarm System
- Medical Equipment
- Cable Television
- UPS
- Communication Equipment
- Power tools
- Control Equipment
- Emergency Power System
- Security System
- Toys

### General Features

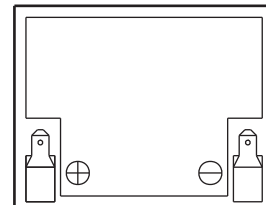
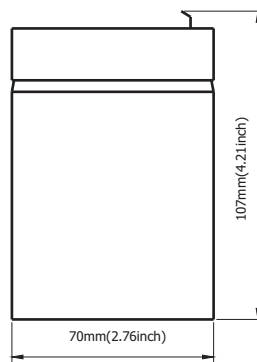
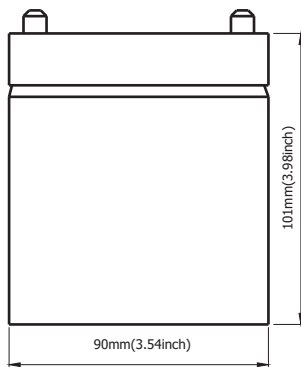
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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



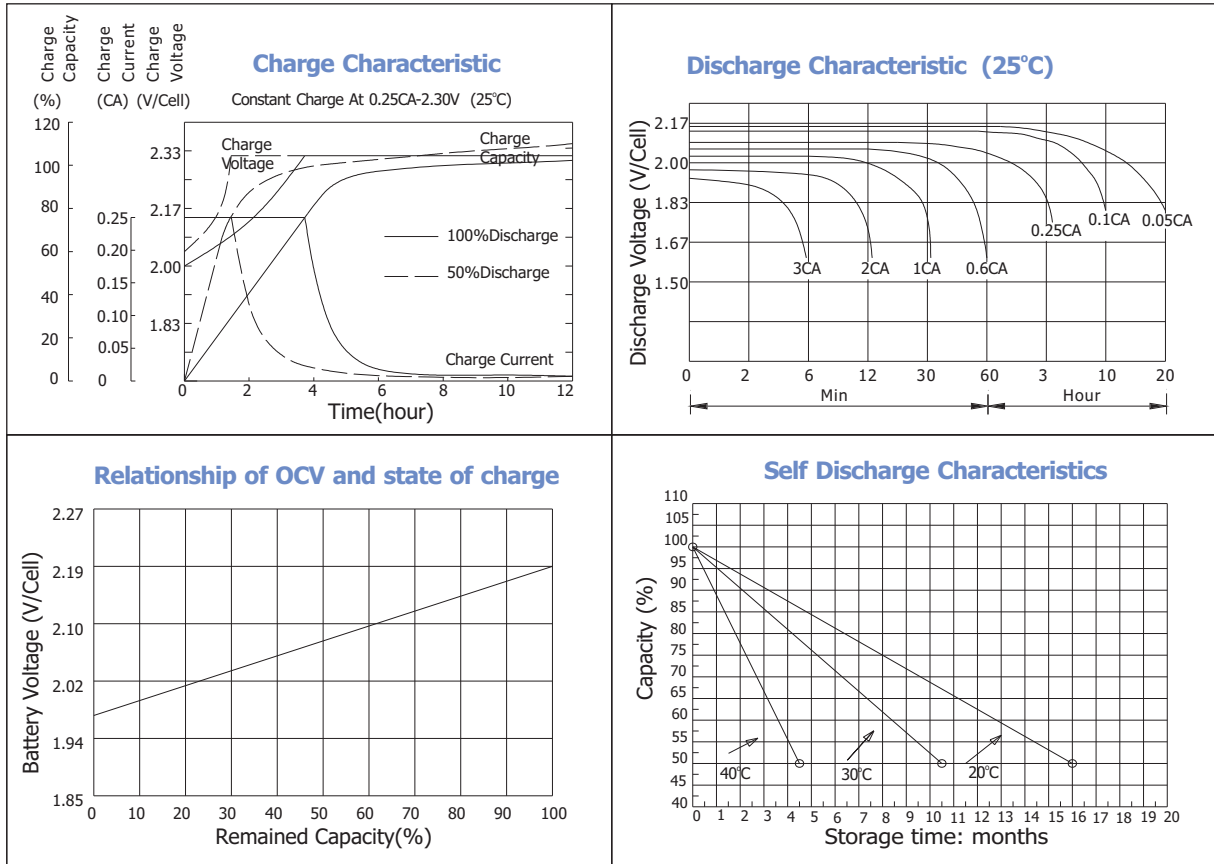
**Terminal Dimensions**

### Construction

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



Battery Model	BT 4.5-12			
Designed Floating Life	5 Years			
Capacity(25°C)	20HR(0.225A,1.75V)	10HR(0.43A,1.75V)	5HR(0.77A,1.75V)	1HR(2.82A,1.75V)
	4.5AH	4.3AH	3.85AH	2.82AH
Dimensions	Length	Width	Height	Total Height
	90mm(3.54inch)	70mm(2.76inch)	101mm(3.98inch)	107mm(4.21inch)
Approx. Weight	1.62Kg (3.57 lbs)			
Internal Resistance	Full charged at 25°C: 0.035 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: 1.35A		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	17.0	10.6	7.98	4.86	3.09	1.35	0.83	0.46	0.25
1.67V	16.0	10.0	7.67	4.65	3.05	1.30	0.81	0.45	0.24
1.70V	14.6	9.67	7.49	4.23	2.96	1.21	0.79	0.45	0.24
1.75V	14.3	9.36	7.25	4.02	2.82	1.17	0.77	0.44	0.23
1.80V	12.8	8.94	6.59	3.72	2.64	1.13	0.73	0.44	0.23
1.85V	11.3	8.52	5.92	3.43	2.46	1.09	0.68	0.43	0.22

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	29.8	19.1	14.6	8.76	5.58	2.41	1.40	0.93	0.50
1.67V	28.8	18.6	14.4	8.58	5.54	2.33	1.40	0.92	0.49
1.70V	27.1	18.4	14.3	8.04	5.44	2.23	1.38	0.92	0.48
1.75V	27.3	18.4	14.1	7.79	5.35	2.18	1.37	0.90	0.47
1.80V	24.9	18.1	13.1	7.43	5.04	2.11	1.32	0.89	0.46
1.85V	22.6	17.2	11.9	6.96	4.74	2.05	1.28	0.88	0.44

