



**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**

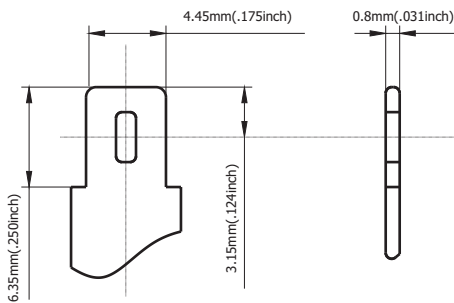
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- UPS
- Power tools
- Emergency Power System
- Toys

**General Features**

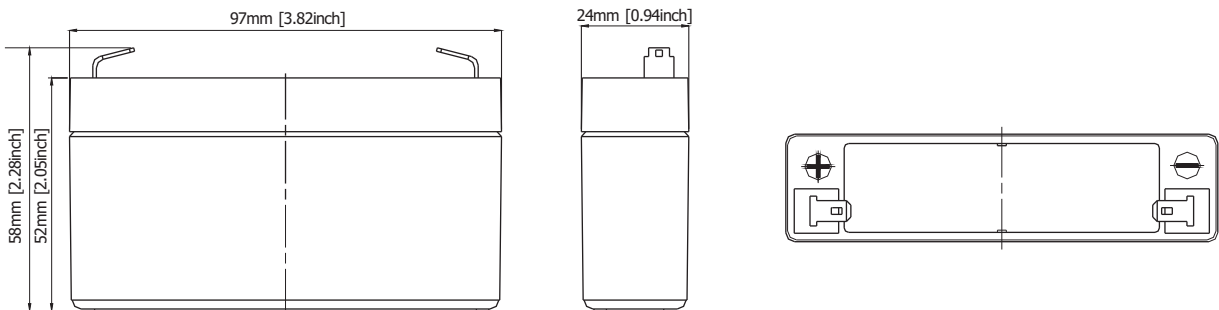
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

**Construction**

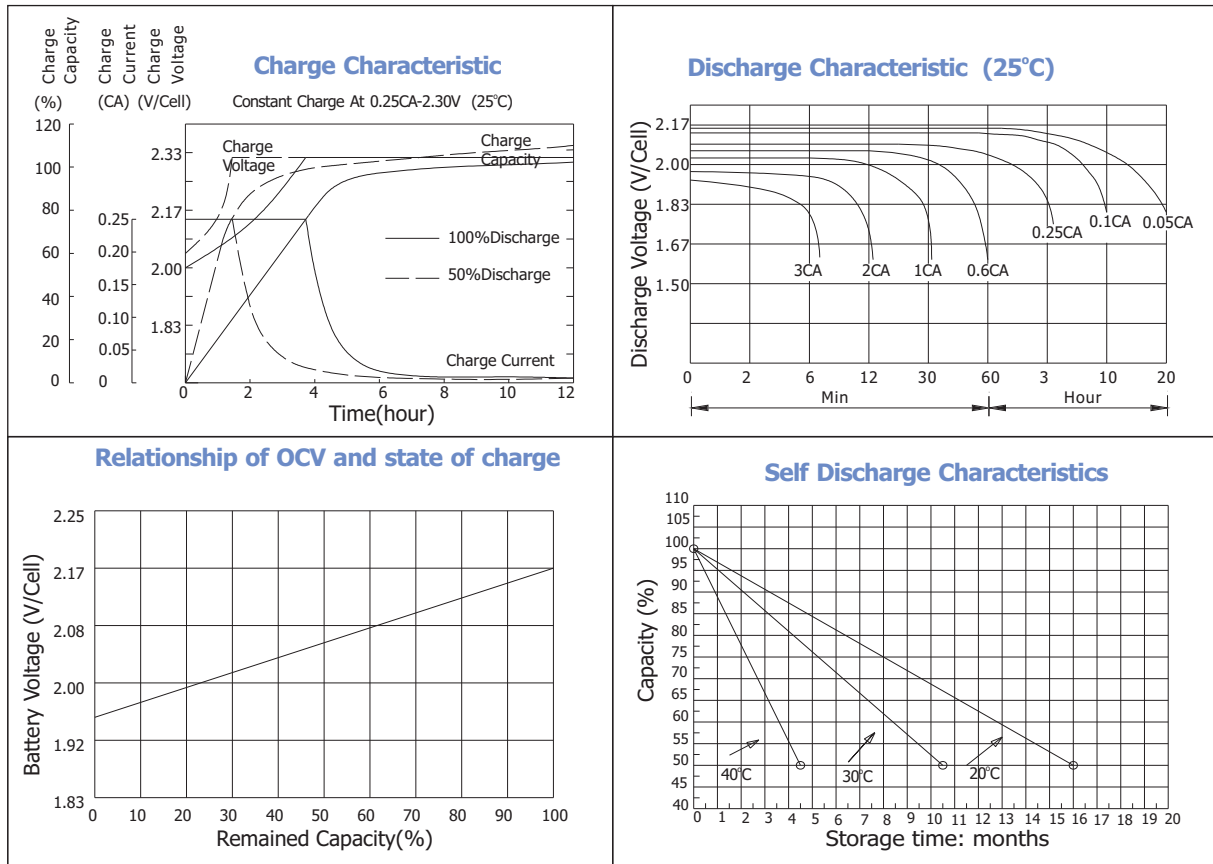
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve .....EPDR
- Terminal .....Copper
- Separator .....Fiber glass
- Electrolyte .....Sulfuric acid



**Terminal Dimensions**



Battery Model	AP-613			
Designed Floating Life	5 Years			
Capacity(25°C)	20HR(0.065A,1.75V)	10HR(0.121A,1.75V)	5HR(0.21A,1.75V)	1HR(0.78A,1.75V)
	1.3AH	1.21AH	1.05AH	0.78AH
Dimensions	Length	Width	Height	Total Height
	97mm(3.82inch)	24mm(0.94inch)	52mm(2.05inch)	58mm(2.28inch)
Approx. Weight	0.31Kg (0.68 lbs)			
Internal Resistance	Full charged at 25°C: 0.050 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	
	7.2-7.5V(-15mV/ °C), max. Current: 0.39A		6.8-6.9V(-10mV/ °C)	



Constant Current Discharge Characteristics: A (77°F/25°C)

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	4.83	2.92	2.28	1.46	0.87	0.43	0.35	0.27	0.23	0.15	0.123	0.068
5.00V	4.42	2.68	2.11	1.40	0.84	0.43	0.34	0.27	0.22	0.15	0.123	0.066
5.10V	4.09	2.48	1.95	1.32	0.81	0.42	0.33	0.26	0.22	0.15	0.122	0.066
5.25V	3.90	2.34	1.82	1.17	0.78	0.41	0.33	0.25	0.21	0.14	0.121	0.065
5.40V	3.46	2.05	1.56	1.03	0.69	0.39	0.31	0.24	0.19	0.14	0.119	0.064
5.55V	2.84	1.68	1.29	0.90	0.63	0.35	0.28	0.22	0.18	0.13	0.116	0.063

Constant Power Discharge Characteristics: W (77°F/25°C)

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	24.60	14.96	11.77	7.56	4.75	2.38	1.92	1.50	1.29	0.88	0.727	0.401
5.00V	23.01	14.01	11.06	7.36	4.64	2.38	1.88	1.49	1.27	0.88	0.725	0.392
5.10V	21.42	13.11	10.41	7.10	4.50	2.37	1.87	1.47	1.26	0.87	0.724	0.390
5.25V	20.89	12.65	9.88	6.38	4.40	2.33	1.86	1.46	1.22	0.85	0.720	0.388
5.40V	18.94	11.22	8.62	5.72	3.92	2.23	1.81	1.42	1.10	0.82	0.713	0.386
5.55V	16.05	9.55	7.37	5.16	3.63	2.05	1.64	1.33	1.07	0.80	0.702	0.381

All mentioned values are average values.

