



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

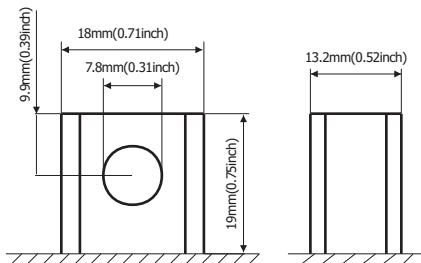
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- UPS
- Power tools
- Emergency Power System
- Toys

General Features

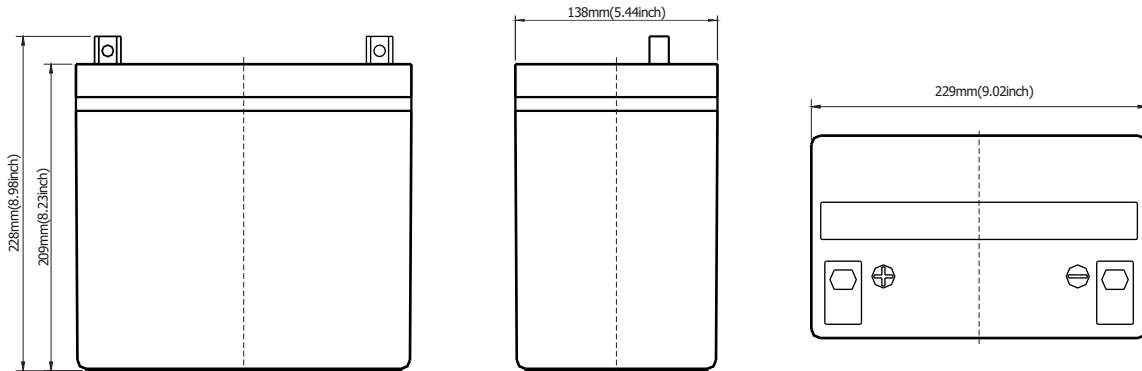
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

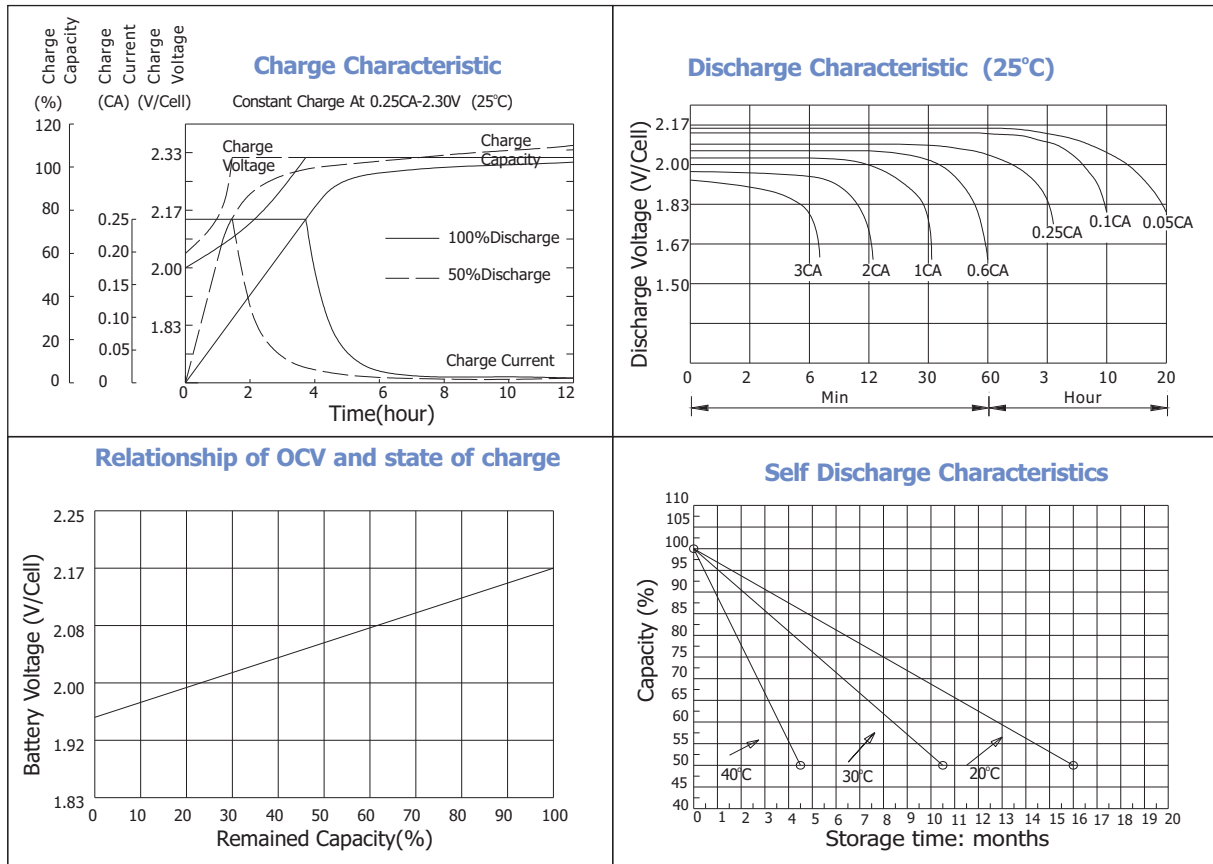
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFiber glass
- ElectrolyteSulfuric acid



Terminal Dimensions



Battery Model	AP12-55			
Designed Floating Life	5 Years			
Capacity(25°C)	20HR(2.97A,1.75V)	10HR(5.5A,1.75V)	5HR(9.5A,1.75V)	1HR(30.3A,1.75V)
	59.4AH	55AH	47.5AH	30.3AH
Dimensions	Length	Width	Height	Total Height
	229mm(9.02inch)	138mm(5.44inch)	209mm(8.23inch)	228mm(8.98inch)
Approx. Weight	17.09Kg (37.68 lbs)			
Internal Resistance	Full charged at 25°C: 0.0058 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	
	14.4-15.0V(-30mV/ °C), max. Current: 14A		13.6-13.8V(-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
9.60V	220.5	131.7	104.7	65.8	33.7	19.8	15.9	12.3	10.5	6.9	5.61	3.11
10.00V	201.9	120.9	96.9	63.0	32.5	19.5	15.4	12.1	10.2	6.8	5.58	3.02
10.20V	186.8	112.0	89.6	59.6	31.4	19.2	15.1	11.8	10.0	6.7	5.55	3.00
10.50V	178.2	105.6	83.6	52.8	30.3	18.7	14.9	11.6	9.5	6.6	5.50	2.97
10.80V	158.0	92.3	71.7	46.6	26.6	17.6	14.3	11.0	8.4	6.3	5.42	2.92
11.10V	129.9	75.9	59.3	40.7	24.3	16.0	12.7	10.2	8.2	6.1	5.26	2.86

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	2158.5	1296.0	1037.9	655.4	353.8	208.9	168.7	130.8	112.7	77.1	63.52	35.15
10.00V	2018.7	1213.6	975.5	637.5	345.8	208.4	164.9	130.0	111.2	76.8	63.36	34.37
10.20V	1878.9	1135.5	917.9	614.8	335.3	207.6	164.1	128.5	109.7	76.0	63.20	34.21
10.50V	1832.4	1095.7	871.1	553.0	327.4	204.5	163.3	127.8	106.8	74.8	62.89	34.06
10.80V	1661.5	972.0	760.5	496.0	291.7	195.1	158.6	124.0	95.7	72.2	62.27	33.90
11.10V	1408.4	827.7	649.8	447.2	270.6	179.5	143.9	116.4	93.5	69.9	61.34	33.44

All mentioned values are average values.

