



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.



Battery Type	Valve-Regulated, Absorbed Glass Mat (AGM) Technology			
Nominal Voltage	12V			
Capacity(20 °C)	20HR(8.73A, 1.8V/cell)	10HR(16.49A, 1.8V/cell)	5HR(28.42A, 1.75V/cell)	1HR(106.1A, 1.6V/cell)
	174.6.0AH	164.9AH	142.1AH	106.1AH
Dimensions	Length	Width	Height	Total Height
	560mm(22.05inches)	125mm(4.92inches)	316mm(12.44inches)	316mm(12.44inches)
Approx Weight	Approx 54.7 kg (120.614lbs)			
Internal Resistance	Full Charged at 20 °C : Approx 2.9mΩ			
Self Discharge	3% of capacity declined per month at 20°C			
Capacity affected by Temperature(10HR)	40 °C	25 °C	0 °C	-15 °C
	103%	100%	86%	65%
Charging Voltage (V)	Cycle use		Float use	
	14.4V~15.0V at 20°C. Temp. Coefficient -30mV/ °C		13.5V~13.8V at 20°C. Temp. Coefficient -20mV/ °C	
Current	Max. Discharge Current(5s)		Initial Charging Current	
	1360A		Less than 54A	
Operating Temp. Range	Discharge		Charging	
	-15~50 °C(5~122 °F)		0~40 °C(32~104 °F)	
	Storage			
			-15~40 °C(5~104 °F)	

Constant Current Discharge (Amperes) at 20 °C (68°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	233.5	205.4	184.1	150.9	116.3	94.9	55.4	40.5	32.4	27.3	23.9	18.9	15.8	8.35
1.80V/cell	271.3	237.1	205.4	162.2	122.9	99.4	57.4	42.0	33.5	28.0	24.4	19.6	16.5	8.73
1.75V/cell	299.4	255.2	219.0	168.6	126.8	102.3	58.7	42.6	33.9	28.4	24.8	19.9	16.7	8.82
1.70V/cell	318.8	267.4	227.7	174.4	129.2	104.0	59.5	43.2	34.4	28.7	25.1	20.2	16.9	8.88
1.65V/cell	333.4	276.5	232.6	177.9	132.0	106.1	60.3	43.6	34.8	29.1	25.4	20.4	17.0	8.92
1.60V/cell	347.9	284.2	239.3	181.5	134.0	107.7	61.1	44.2	35.0	29.4	25.6	20.6	17.2	8.97

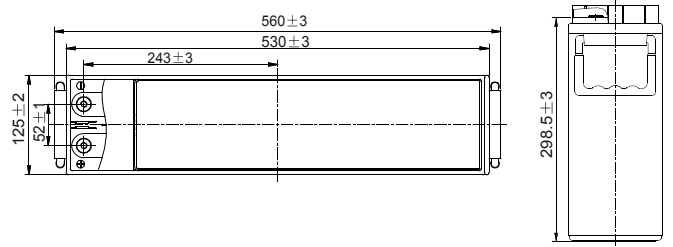
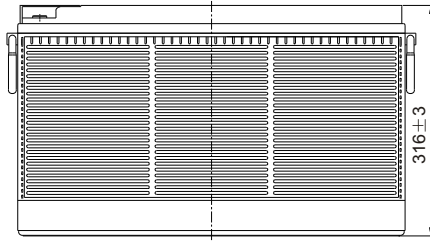
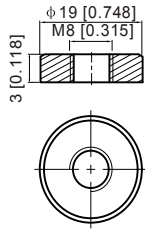
Constant Power Discharge (Watts) at 20 °C (68°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	436.1	387.4	350.7	290.5	225.8	185.1	108.7	79.8	64.1	54.0	47.3	37.7	31.5	16.7
1.80V/cell	500.7	441.2	385.6	307.5	236.9	192.7	111.8	82.2	65.8	55.3	48.4	39.0	32.9	17.5
1.75V/cell	543.8	469.1	407.3	317.2	242.2	197.5	114.0	83.2	66.4	55.8	49.0	39.5	33.3	17.6
1.70V/cell	566.0	484.9	420.3	326.3	245.8	200.0	115.3	84.2	67.2	56.2	49.5	39.9	33.6	17.7
1.65V/cell	589.6	499.2	427.5	332.3	250.2	203.5	116.6	84.8	67.8	56.8	49.9	40.3	33.9	17.8
1.60V/cell	598.3	503.0	433.8	334.6	251.2	204.7	117.0	85.2	68.1	57.1	50.1	40.5	34.0	17.8

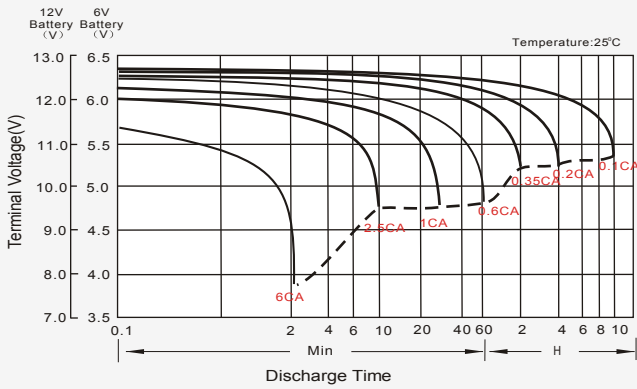
Dimensions

Terminal

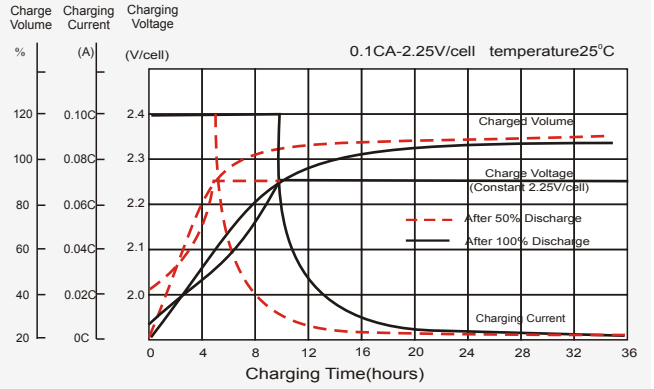
Unit: mm [inches]



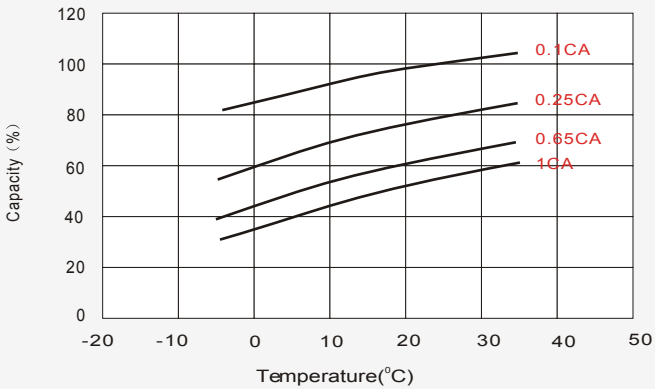
Discharge characteristics



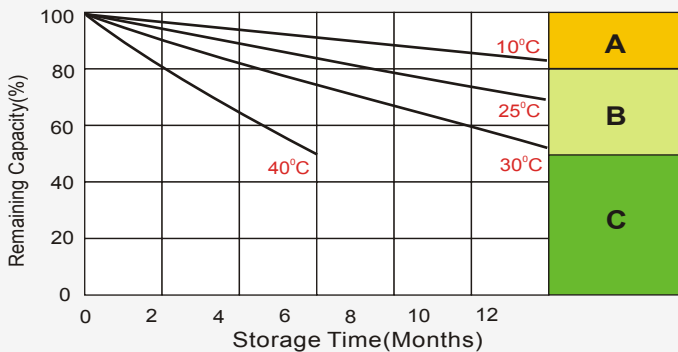
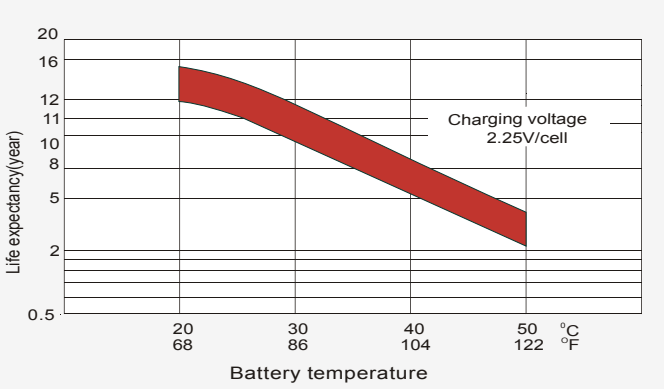
Cycle use charging characteristics



Temperature effects in relation to battery capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
 2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
 3. Charged for 8-10hours at limited current 0.05CA .
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.