

### 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(0.039A,1.8V/cell)	10HR(0.072A,1.80V)	5HR(0.131A,1.75V)	1HR(0.477A,1.60V)
	0.78AH	0.72AH	0.655AH	0.477AH
Dimensions	Length	Width	Height	Total Height
	96mm(3.78inches)	25mm(0.98inches)	62mm(2.44inches)	62mm(2.44inches)
Approx Weight	Approx 0.34 kg (0.75lbs)			
Internal Resistance	Full Charged at 20°C: Approx 150m Ω			
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. T emp. Coefficient -30mV/ °C		13.5V~13.8V at 20 °C.Temp. Coefficient (-20mV/ °C)	
Current	Max. Discharge Current		Initial Charging Current	
	12A		Less than 0.24A	
Operating T emp.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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1.45	1.11	0.92	0.80	0.616	0.453	0.382	0.228	0.179	0.145	0.119	0.104	0.084	0.070	0.038
1.80V/cell	1.94	1.42	1.11	0.94	0.726	0.527	0.428	0.249	0.192	0.155	0.127	0.111	0.089	0.072	0.039
1.75V/cell	2.19	1.56	1.22	1.01	0.754	0.547	0.448	0.259	0.196	0.159	0.131	0.114	0.090	0.074	0.039
1.70V/cell	2.41	1.70	1.30	1.06	0.785	0.569	0.462	0.265	0.201	0.163	0.134	0.117	0.092	0.076	0.040
1.65V/cell	2.66	1.84	1.38	1.13	0.828	0.583	0.473	0.269	0.210	0.168	0.138	0.119	0.093	0.077	0.040
1.60V/cell	2.93	1.99	1.48	1.20	0.874	0.608	0.477	0.280	0.216	0.174	0.142	0.122	0.094	0.078	0.041

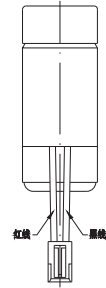
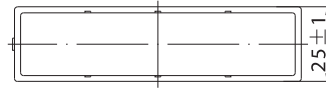
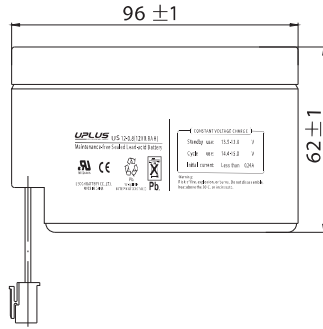
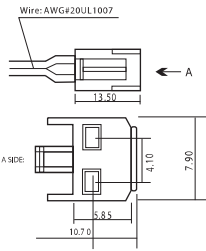
### Constant Power Discharge (Watts) at 20 °C (68 °F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2.65	2.05	1.72	1.50	1.173	0.872	0.737	0.444	0.348	0.284	0.232	0.204	0.165	0.139	0.076
1.80V/cell	3.51	2.59	2.05	1.75	1.363	1.006	0.821	0.481	0.373	0.302	0.248	0.218	0.175	0.143	0.077
1.75V/cell	3.88	2.80	2.21	1.86	1.403	1.034	0.855	0.497	0.378	0.307	0.254	0.223	0.178	0.146	0.077
1.70V/cell	4.15	2.99	2.33	1.94	1.453	1.071	0.880	0.508	0.388	0.315	0.260	0.228	0.180	0.149	0.079
1.65V/cell	4.51	3.19	2.45	2.05	1.520	1.088	0.893	0.512	0.403	0.325	0.266	0.232	0.182	0.152	0.080
1.60V/cell	4.86	3.39	2.58	2.16	1.593	1.128	0.897	0.532	0.413	0.334	0.274	0.236	0.184	0.153	0.080

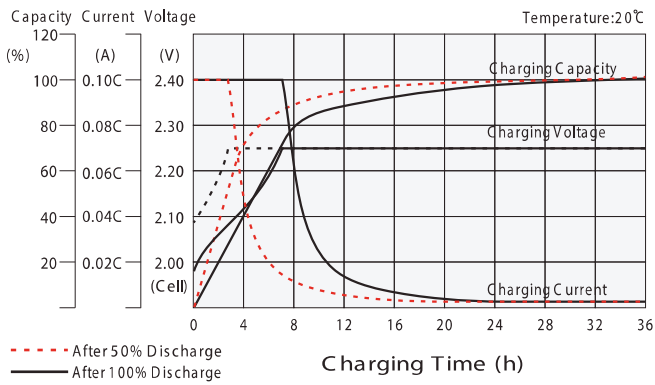
# Dimensions

## Terminal

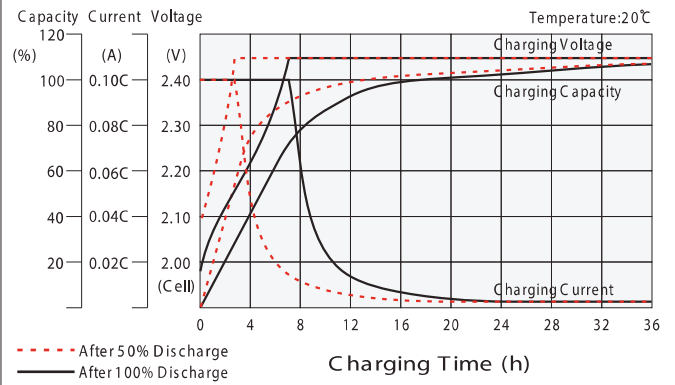
Unit: mm [inches]



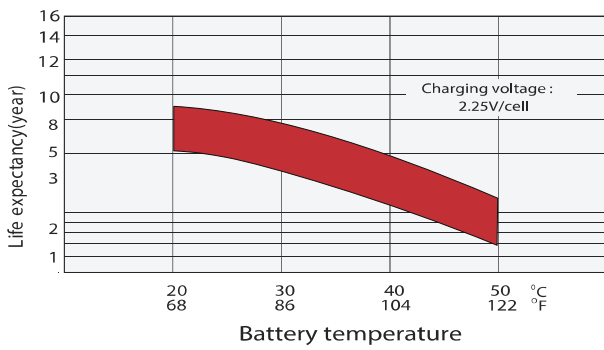
## Float charging characteristics



## Cycle use charging characteristics

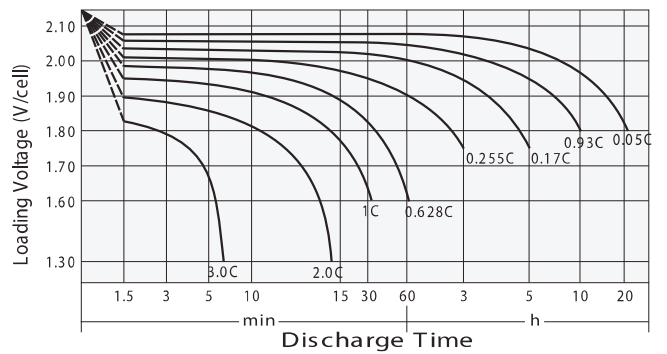


## Effect of Temperature on Long Term Float Life

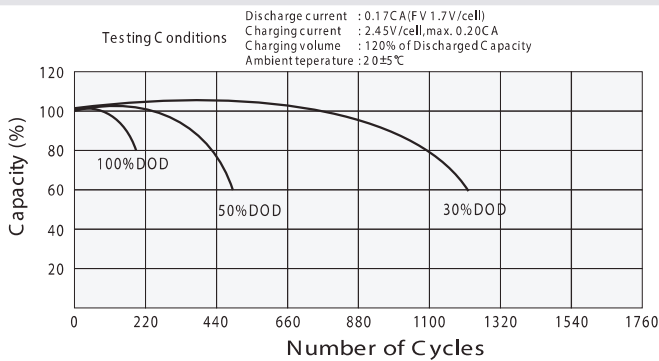


## Discharge characteristics

Temperature: 20°C



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics

