



### 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 (0.218A, 1.8V/cell)	10HR (0.406A, 1.80V)	5HR (0.734A, 1.75V)	1HR (2.68A, 1.60V)
	4.36AH	4.06AH	3.67AH	2.68AH
Dimensions	Length	Width	Height	Total Height
	90mm (3.54 inches)	70mm (2.76 inches)	101mm (3.98 inches)	107mm (4.21 inch)
Approx Weight	Approx 1.60 kg (3.53 lbs)			
Internal Resistance	Full Charged at 20°C: Approx 40m 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. Temp. Coefficient -30mV/ °C		13.5V~13.8V at 20 °C. Temp. Coefficient (-20mV/ °C)	
Current	Max. Discharge Current		Initial Charging Current	
	67.5A		Less than 1.35A	
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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.14	6.25	5.18	4.48	3.46	2.55	2.15	1.28	1.01	0.817	0.667	0.584	0.471	0.394	0.216
1.80V/cell	10.9	7.99	6.26	5.29	4.09	2.97	2.41	1.40	1.08	0.873	0.715	0.627	0.500	0.406	0.218
1.75V/cell	12.3	8.78	6.83	5.69	4.24	3.08	2.52	1.45	1.10	0.892	0.734	0.644	0.509	0.417	0.220
1.70V/cell	13.6	9.57	7.30	5.98	4.41	3.20	2.60	1.49	1.13	0.916	0.753	0.657	0.516	0.425	0.224
1.65V/cell	15.0	10.3	7.76	6.36	4.66	3.28	2.66	1.51	1.18	0.947	0.774	0.672	0.524	0.434	0.227
1.60V/cell	16.5	11.2	8.30	6.77	4.92	3.42	2.68	1.58	1.22	0.977	0.799	0.686	0.529	0.439	0.229

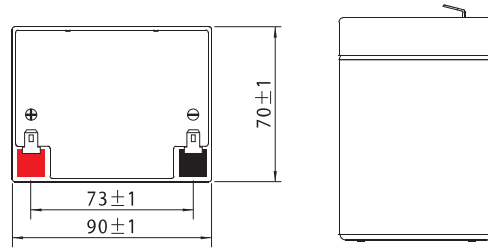
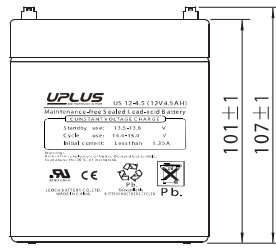
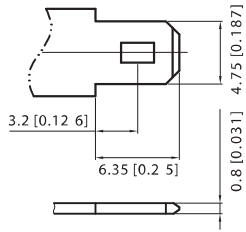
### Constant Power Discharge (Watts) at 20°C (68°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	14.9	11.5	9.7	8.4	6.60	4.90	4.15	2.50	1.96	1.60	1.31	1.15	0.93	0.779	0.428
1.80V/cell	19.8	14.6	11.5	9.8	7.7	5.66	4.62	2.70	2.10	1.70	1.40	1.23	0.98	0.802	0.432
1.75V/cell	21.8	15.8	12.4	10.5	7.9	5.82	4.81	2.79	2.13	1.73	1.43	1.26	1.00	0.823	0.435
1.70V/cell	23.4	16.8	13.1	10.9	8.2	6.02	4.95	2.86	2.18	1.77	1.46	1.28	1.01	0.838	0.443
1.65V/cell	25.4	18.0	13.8	11.5	8.5	6.12	5.03	2.88	2.27	1.83	1.50	1.31	1.03	0.854	0.448
1.60V/cell	27.4	19.1	14.5	12.1	9.0	6.34	5.05	2.99	2.32	1.88	1.54	1.33	1.03	0.862	0.450

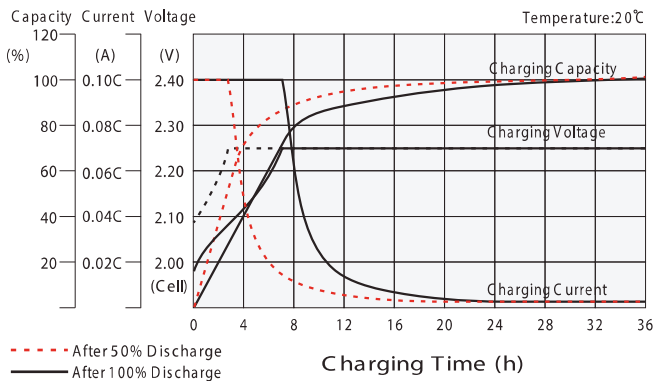
# Dimensions

## T1 Terminal

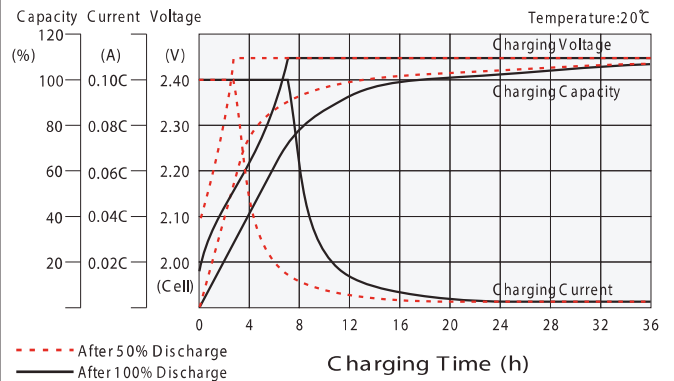
Unit: mm [inches]



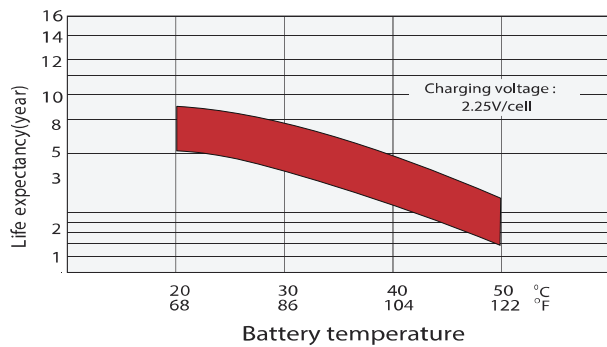
## Float charging characteristics



## Cycle use charging characteristics

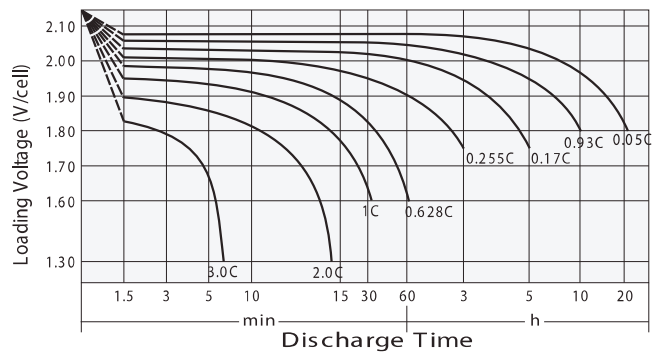


## Effect of Temperature on Long Term Float Life

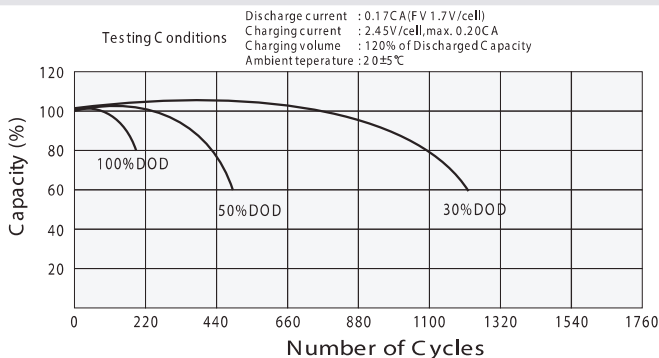


## Discharge characteristics

Temperature: 20°C



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics

