

### 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(0.291A, 1.8V/cell)	10HR(0.555A, 1.80V)	5HR(0.99A, 1.75V)	1HR(3.75A, 1.60V)
	5.82AH	5.55AH	4.94AH	3.75AH
Dimensions	Length	Width	Height	Total Height
	151mm(5.94inches)	53mm(2.09inches)	93mm(3.66inches)	99mm(3.90inches)
Approx Weight	Approx 2.0 kg (4.41lbs)			
Internal Resistance	Full Charged at 20°C: Approx 25m 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	
	90A		Less than 1.8A	
Operating Temp. Range	Discharge		Charging	Storage
	-15 ~ 50°C (5 ~ 122°F)		0 ~ 40°C (32 ~ 104°F)	-15 ~ 40°C (5 ~ 104°F)

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

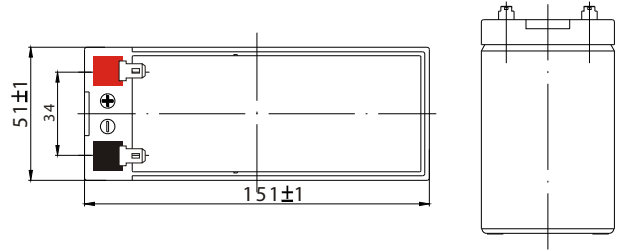
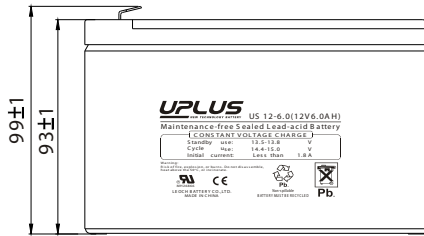
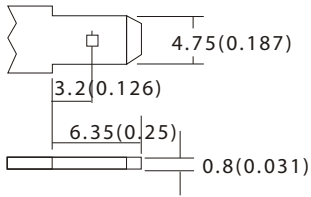
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	19.0	12.7	9.98	8.12	5.90	4.40	3.42	2.07	1.48	1.15	0.95	0.82	0.641	0.538	0.281
1.80V/cell	20.0	13.2	10.2	8.33	5.99	4.46	3.47	2.10	1.51	1.17	0.97	0.84	0.655	0.555	0.291
1.75V/cell	20.6	13.7	10.5	8.48	6.12	4.51	3.52	2.14	1.53	1.19	0.99	0.86	0.664	0.566	0.298
1.70V/cell	21.5	14.2	10.9	8.73	6.23	4.58	3.58	2.18	1.55	1.22	1.01	0.87	0.674	0.571	0.302
1.65V/cell	22.0	14.5	11.2	8.92	6.36	4.64	3.65	2.22	1.57	1.24	1.03	0.88	0.683	0.576	0.304
1.60V/cell	23.3	15.2	11.4	9.15	6.50	4.74	3.75	2.26	1.60	1.26	1.05	0.90	0.697	0.589	0.311

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

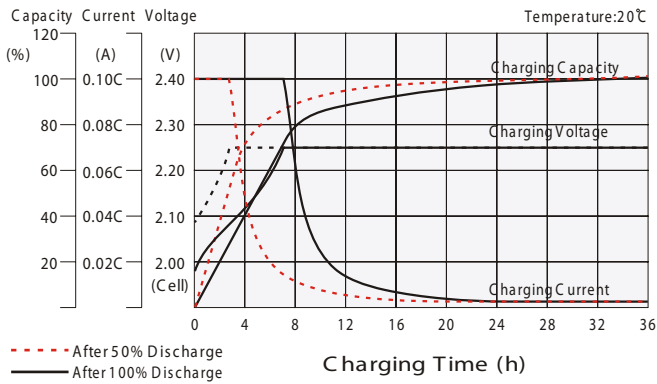
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	37.7	25.2	19.8	16.2	11.7	8.78	6.81	4.13	2.94	2.29	1.89	1.64	1.28	1.08	0.561
1.80V/cell	39.4	26.2	20.2	16.5	11.9	8.90	6.93	4.20	3.00	2.33	1.95	1.68	1.31	1.11	0.582
1.75V/cell	40.9	27.1	20.9	16.9	12.2	9.03	7.04	4.26	3.04	2.38	1.99	1.72	1.33	1.13	0.596
1.70V/cell	42.7	28.1	21.7	17.4	12.4	9.16	7.16	4.34	3.09	2.43	2.02	1.75	1.35	1.14	0.604
1.65V/cell	43.8	28.8	22.2	17.8	12.6	9.27	7.29	4.44	3.15	2.48	2.04	1.78	1.37	1.15	0.608
1.60V/cell	46.4	30.2	22.8	18.2	12.9	9.47	7.49	4.49	3.22	2.52	2.08	1.80	1.40	1.17	0.622

# Dimensions

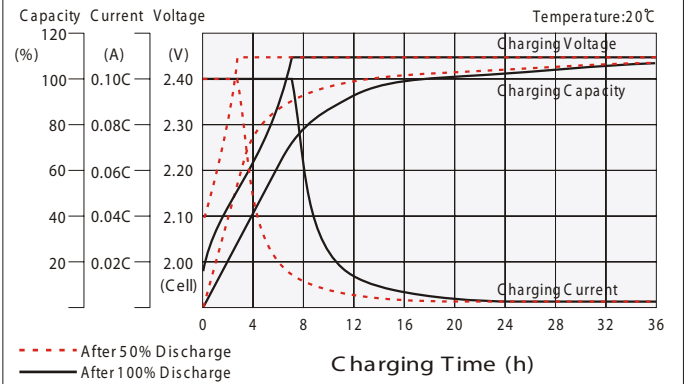
**T1 Terminal**  
Unit: mm [inches]



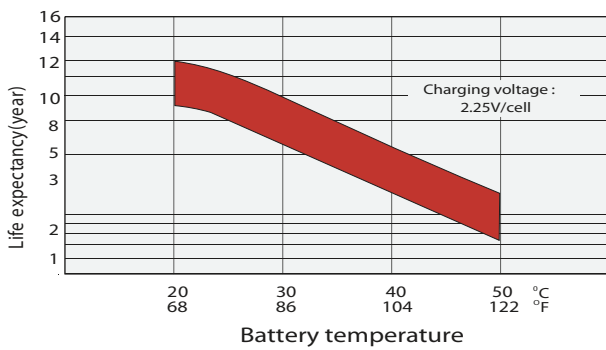
## Float charging characteristics



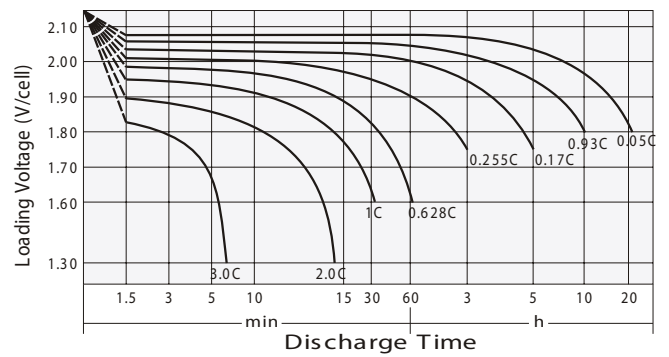
## Cycle use charging characteristics



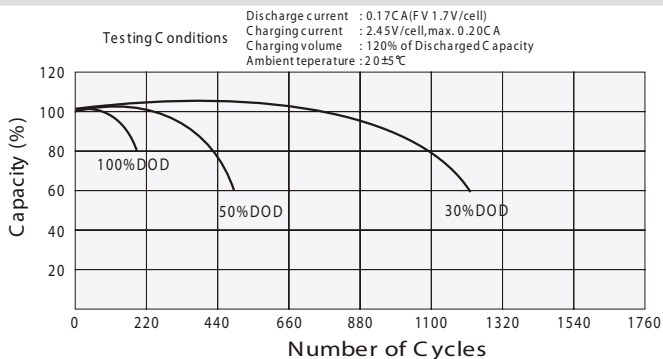
## Effect of Temperature on Long Term Float Life



## Discharge characteristics



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics

