



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(3.54inches)	70mm(2.76inches)	101mm(3.98inches)	107mm(4.21inch)
Approx Weight	Approx 1.60 kg (3.53lbs)			
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. T emp. 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 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	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

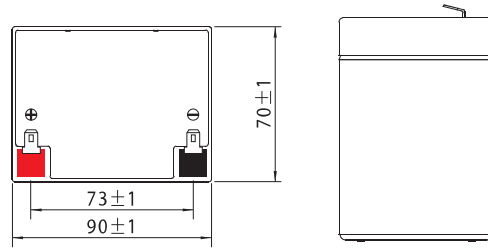
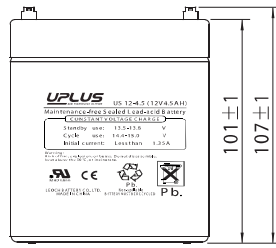
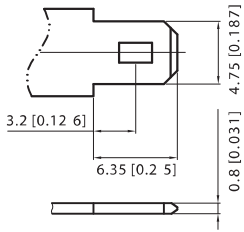
Constant Power Discharge (Watts) at 20 °C (68 °F)

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

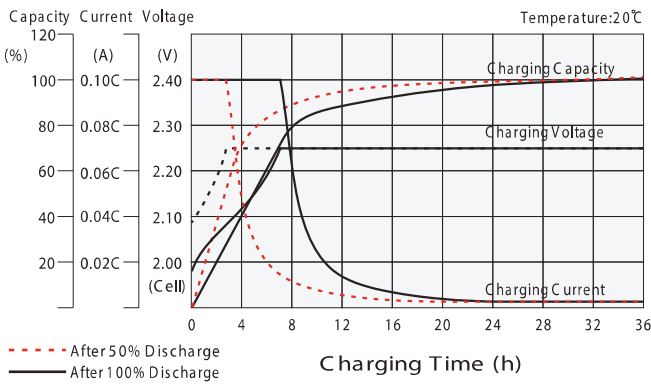
Dimensions

T1 Terminal

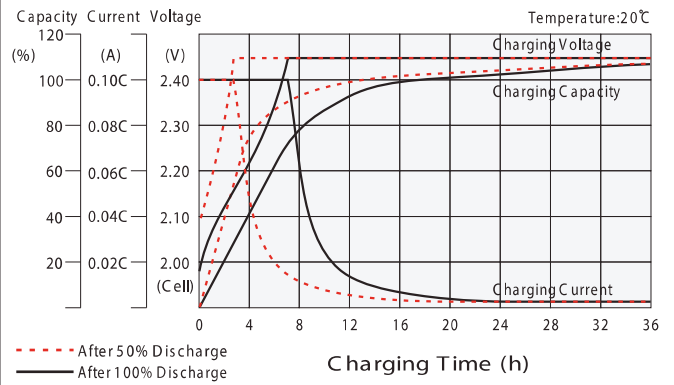
Unit: mm [inches]



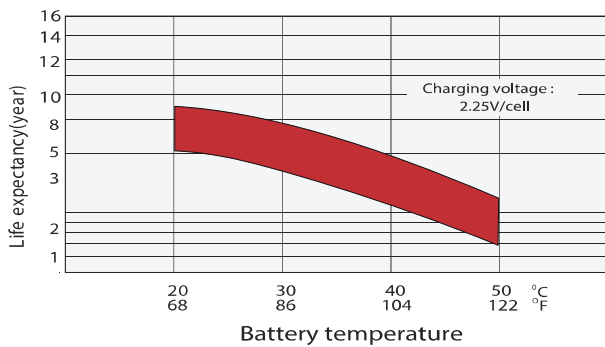
Float charging characteristics



Cycle use charging characteristics

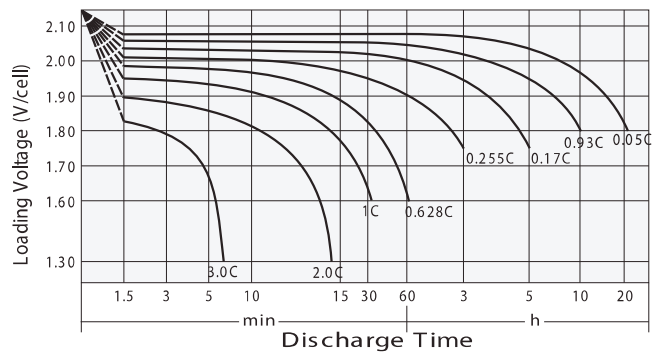


Effect of Temperature on Long Term Float Life

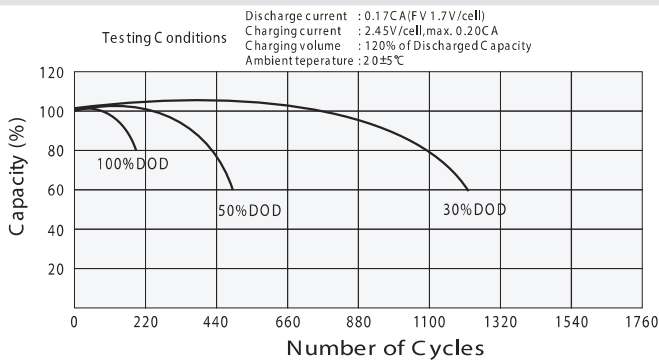


Discharge characteristics

Temperature: 20°C



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

