



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(1.23A,1.8V/cell)	10HR(2.33A,1.80V)	5HR(4.0A,1.75V)	1HR(14.0A,1.60V)
	24.6AH	23.3AH	20.0AH	14.0AH
Dimensions	Length	Width	Height	Total Height
	166.5mm(6.56inches)	175mm(6.89inches)	125mm(4.92inches)	125mm(4.92inches)
Approx Weight	Approx 8.1 kg (17.9lbs)			
Internal Resistance	Full Charged at 20°C: Approx 14m 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	
	360A		Less than 7.2A	
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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	29.4	24.5	20.9	17.1	12.9	10.8	6.99	5.54	4.49	3.63	3.21	2.57	2.20	1.22
1.80V/cell	37.6	29.6	24.7	20.2	15.0	12.1	7.63	5.96	4.79	3.89	3.45	2.73	2.33	1.23
1.75V/cell	41.3	32.4	26.6	20.9	15.6	12.7	7.91	6.07	4.91	4.00	3.54	2.78	2.35	1.25
1.70V/cell	45.0	34.6	28.0	21.8	16.2	13.1	8.22	6.24	5.03	4.10	3.62	2.82	2.37	1.27
1.65V/cell	48.6	36.8	29.7	23.0	16.6	13.5	8.45	6.50	5.20	4.21	3.70	2.86	2.42	1.29
1.60V/cell	52.7	39.3	31.6	24.3	17.3	14.0	8.74	6.70	5.36	4.35	3.78	2.89	2.45	1.29

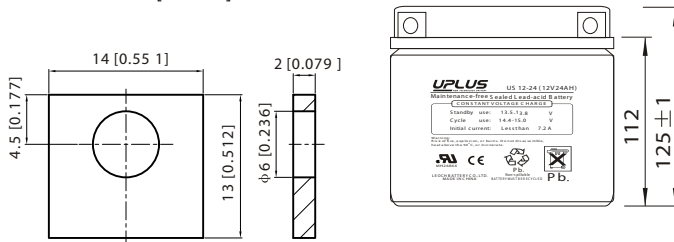
Constant Power Discharge (Watts) at 20 °C (68°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	55.4	46.6	40.2	33.2	25.3	21.3	13.8	11.0	8.93	7.24	6.43	5.17	4.43	2.46
1.80V/cell	69.9	55.6	46.8	38.5	29.2	23.7	15.0	11.8	9.48	7.73	6.88	5.47	4.68	2.48
1.75V/cell	75.6	60.0	49.9	39.7	30.0	24.7	15.5	11.9	9.68	7.91	7.04	5.55	4.72	2.50
1.70V/cell	80.6	63.2	52.0	41.1	31.1	25.4	16.1	12.2	9.90	8.10	7.18	5.63	4.77	2.55
1.65V/cell	86.2	66.7	54.9	43.0	31.6	26.1	16.4	12.7	10.2	8.30	7.31	5.70	4.86	2.58
1.60V/cell	91.5	70.2	57.8	45.1	32.7	26.9	16.9	13.0	10.5	8.54	7.45	5.74	4.90	2.59

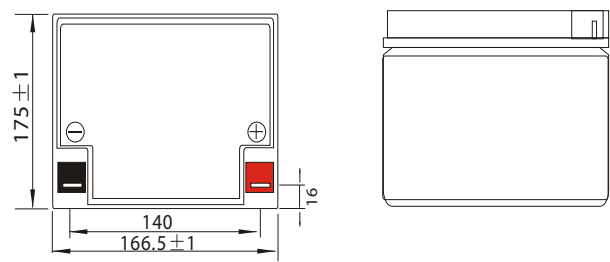
Dimensions

T3 Terminal

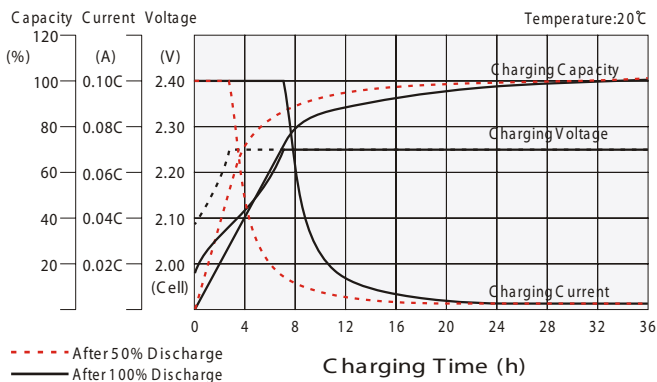
Unit: mm [inches]



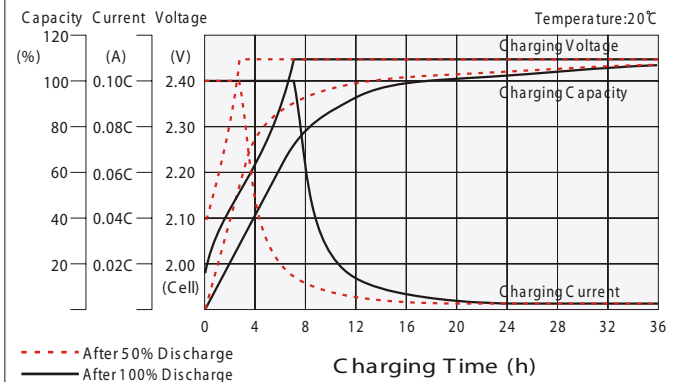
Torque: 3.9~5.4N*M



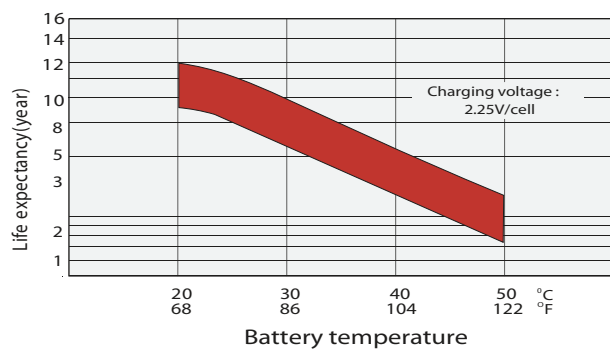
Float charging characteristics



Cycle use charging characteristics

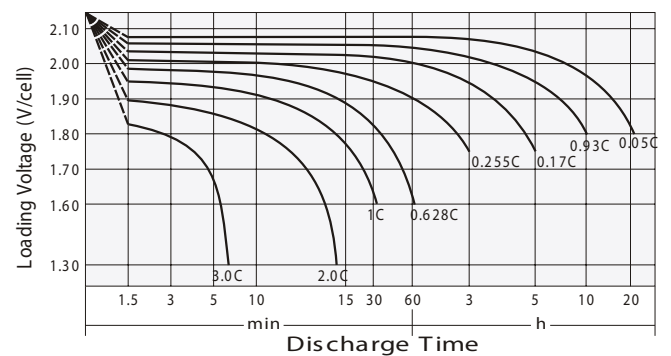


Effect of Temperature on Long Term Float Life

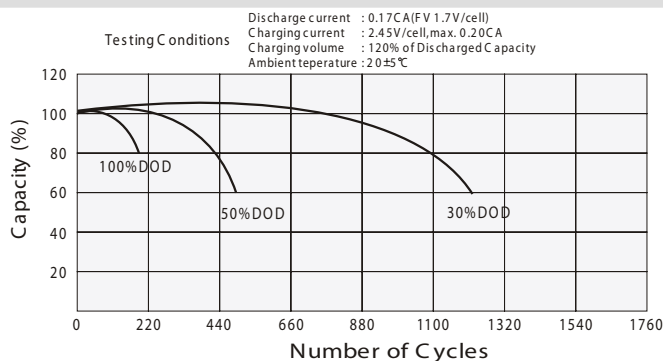


Discharge characteristics

Temperature: 20°C



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

