



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	2V			
Capacity(20°C)	20HR(7.57A, 1.8V/cell)	10HR(14.55A, 1.80V)	5HR(25.0A, 1.75V)	1HR(87.5A, 1.60V)
	151.4AH	145.5AH	125.1AH	87.5AH
Dimensions	Length	Width	Height	Total Height
	170mm(6.69inches)	98mm(3.86inches)	205mm(8.07inches)	212mm(8.35inch)
Approx Weight	Approx 8.5 kg (18.7lbs)			
Internal Resistance	Full Charged at 20°C : Approx 1.1mΩ			
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	
	2.4V~2.5V at 20°C. Temp. Coefficient -5mV/°C		2.25V~2.3V at 20°C. Temp. Coefficient (-3mV/°C)	
Current	Max. Discharge Current		Initial Charging Current	
	1200A		Less than 45.0A	
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	244	192	163	136	110	82.9	67.9	43.2	34.2	27.9	22.7	19.8	16.1	13.7	7.49
1.80V/cell	327	245	197	161	129	96.4	76.0	47.2	36.8	29.8	24.4	21.2	17.1	14.6	7.57
1.75V/cell	369	269	215	173	134	100	79.6	48.9	37.5	30.5	25.0	21.8	17.3	14.7	7.64
1.70V/cell	406	293	230	182	140	104	82.1	50.9	38.5	31.3	25.7	22.3	17.6	14.8	7.78
1.65V/cell	448	317	244	194	147	107	84.8	52.3	40.1	32.4	26.4	22.8	17.9	15.1	7.89
1.60V/cell	494	344	261	206	156	111	87.8	54.1	41.4	33.4	27.3	23.3	18.0	15.3	7.93

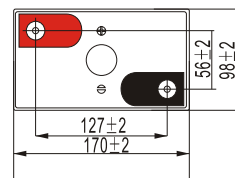
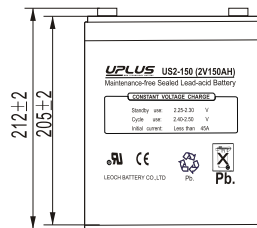
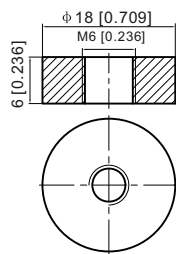
Constant Power Discharge (Watts) at 20 °C (68°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	446	354	304	257	209	159	131	84.0	66.6	54.6	44.6	38.9	31.7	27.2	14.8
1.80V/cell	592	447	363	299	243	184	146	91.0	71.3	58.0	47.7	41.6	33.6	28.7	15.0
1.75V/cell	653	484	391	319	250	189	152	94.1	72.3	59.1	48.8	42.6	34.1	29.0	15.1
1.70V/cell	700	515	412	333	259	196	156	97.6	74.2	60.5	49.9	43.4	34.5	29.3	15.4
1.65V/cell	761	551	435	351	270	199	160	100	77.0	62.4	51.1	44.2	35.0	29.8	15.6
1.60V/cell	820	584	457	370	284	206	165	103	79.0	64.1	52.6	45.1	35.2	30.1	15.6

Dimensions

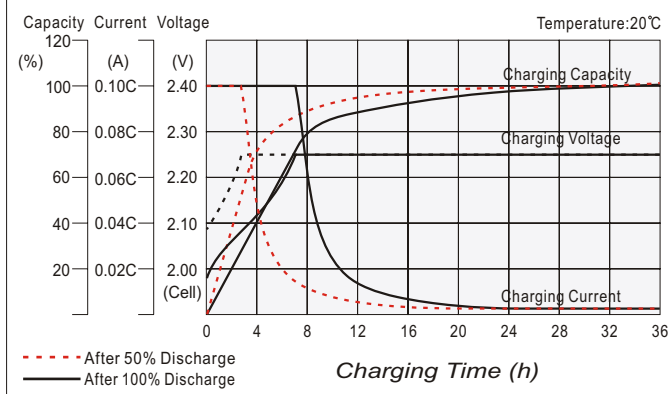
T7 Terminal

Unit: mm [inches]

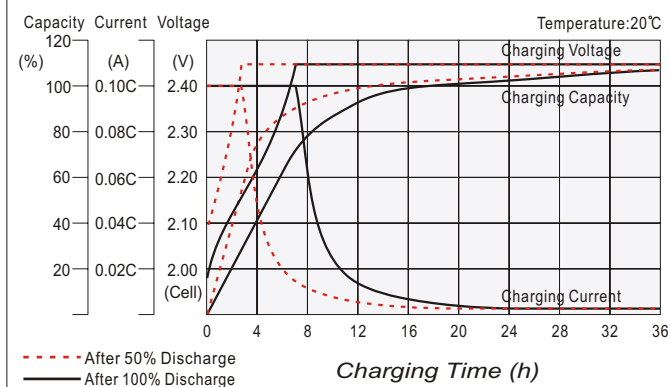


Torque: 3.9~5.4N*M

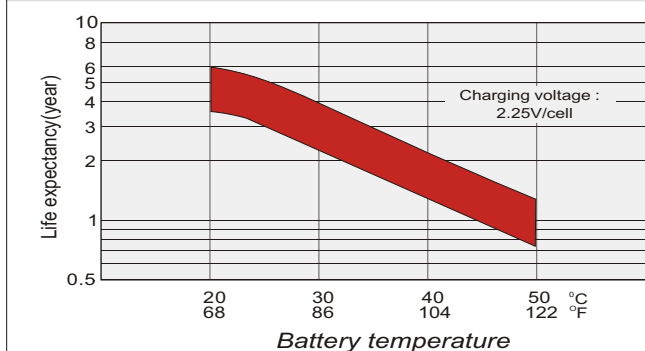
Float charging characteristics



Cycle use charging characteristics

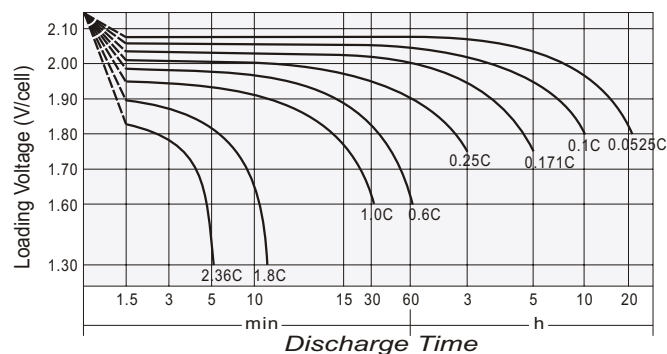


Effect of Temperature on Long Term Float Life

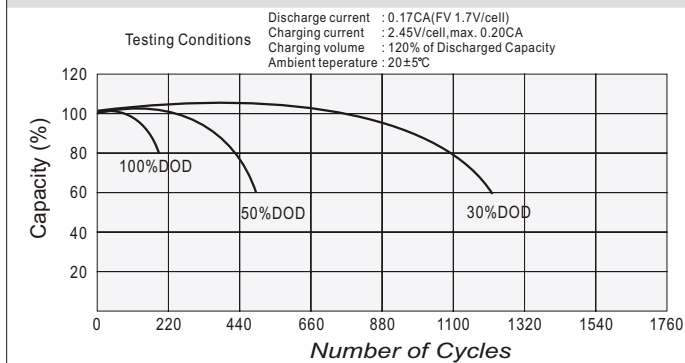


Discharge characteristics

Temperature: 20°C



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

