

**UP-ST800-2**



Specification		
Nominal Voltage	2V	
Nominal Capacity (10HR)	800.0AH	
Dimension	Length	410±3mm (16.14 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±3mm (12.99 inches)
	Total Height (with Terminal)	350±3mm (13.78 inches)
	Approx Weight	Approx 50.1kg (110.5lbs)
Terminal	T11	
Container Material	ABS	
Rated Capacity	840.0AH/42.0A	(20hr, 1.80V/cell, 25°C/77°F)
	800.0AH/80.0A	(10hr, 1.80V/cell, 25°C/77°F)
	696.0AH/139.2A	(5hr, 1.75V/cell, 25°C/77°F)
	604.8AH/201.6A	(3hr, 1.75V/cell, 25°C/77°F)
	485.6AH/485.6A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	6400A (5s)	
Internal Resistance	Approx 0.5mΩ	
Operating Temperature Range	Discharge: -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	
Nominal Operating Temperature Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 240.0A.Voltage. 2.4V~2.5.0V at 25°C (77°F) Temp. Coefficient -5mV/°C	
Standby Use	No limit on Initial Charging Current Voltage. 2.25V~2.3V at 25°C (77°F) Temp. Coefficient -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required.	

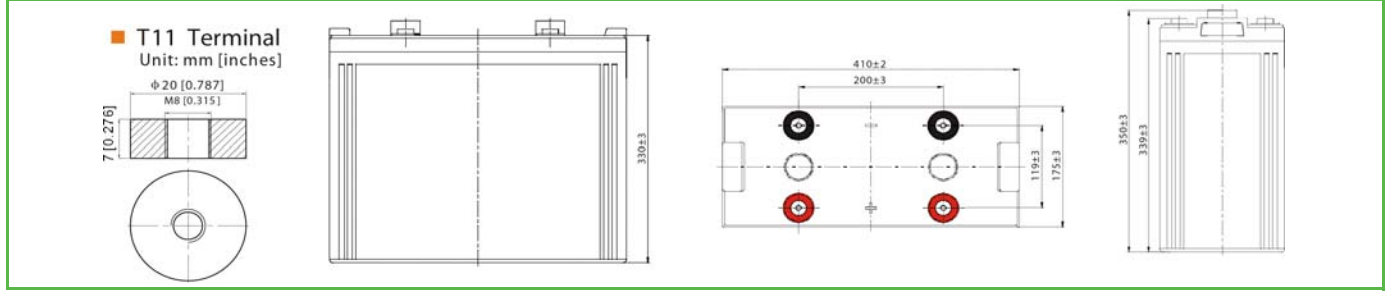
Constant Current Discharge (Amperes) at 25°C (77°F)											
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	613.4	486.4	399.2	239.8	185.3	152.2	129.6	113.2	91.2	76.4	40.5
1.80V/cell	658.2	511.7	424.0	253.0	194.4	159.0	135.0	118.3	94.7	80.0	42.0
1.75V/cell	697.0	538.1	442.4	263.5	201.6	164.4	139.2	121.1	96.5	80.8	42.4
1.70V/cell	731.3	558.3	457.9	271.2	206.9	168.0	141.6	123.2	98.0	81.6	42.8
1.65V/cell	767.2	582.7	474.4	279.4	211.5	171.6	144.6	125.3	99.4	82.6	43.4
1.60V/cell	793.6	598.4	485.6	286.0	216.0	174.0	146.7	127.1	100.7	83.6	43.9

Constant Power Discharge (Watts) at 25°C (77°F)											
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1172.3	935.2	772.2	466.4	362.2	298.5	255.3	223.7	181.0	152.0	80.7
1.80V/cell	1247.8	977.4	815.6	489.7	378.1	310.8	264.9	232.7	187.4	158.9	83.5
1.75V/cell	1311.3	1021.7	847.2	508.0	391.1	320.3	272.1	237.5	190.5	160.3	84.2
1.70V/cell	1364.3	1052.8	872.2	520.7	399.9	325.9	276.0	241.3	190.3	161.7	85.0
1.65V/cell	1420.5	1092.5	898.6	534.1	406.9	331.8	280.9	244.8	195.5	163.5	86.0
1.60V/cell	1454.7	1111.5	913.4	543.4	413.5	335.0	283.8	247.4	197.7	165.2	86.9

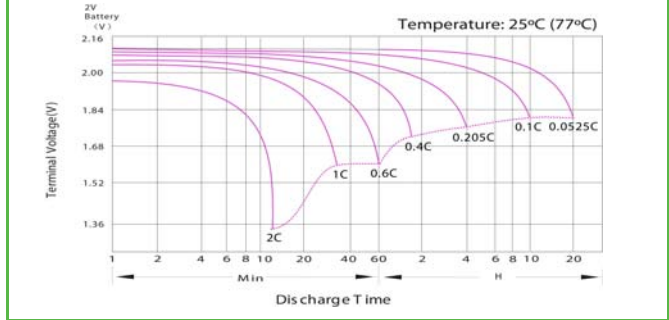


**UP-ST800-2**

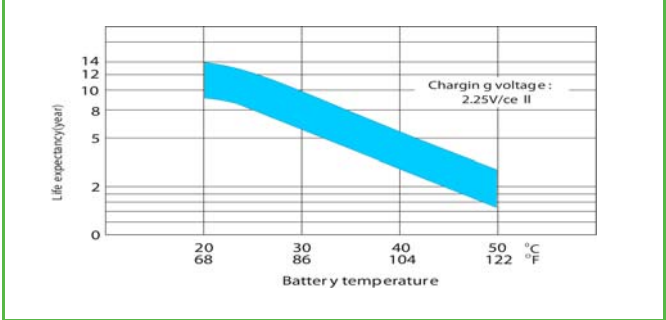
**Dimensions**



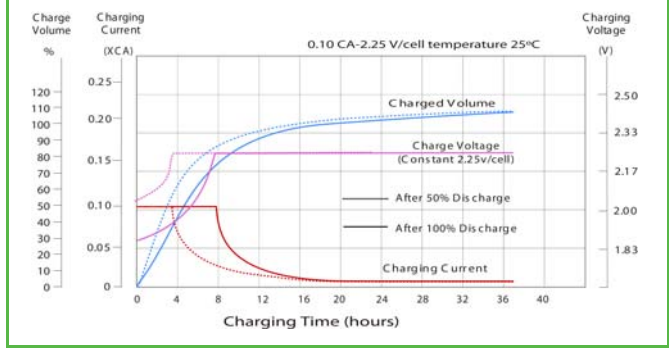
**Discharge Characteristics**



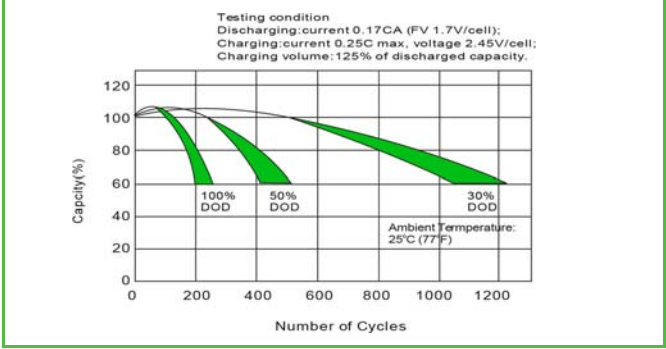
**Effect of Temperature on Long Term Float Life**



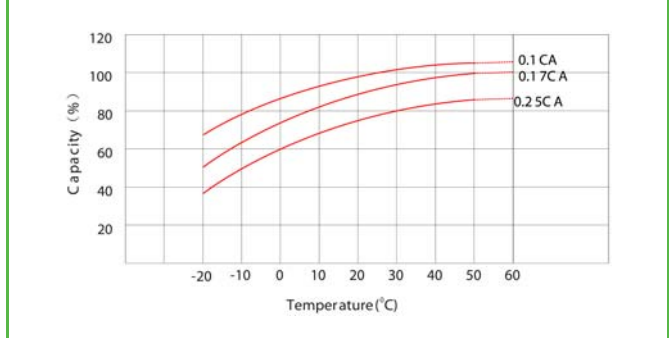
**Float Charging Characteristics**



**Cycle Life in Relation to Depth of Discharge**



**Temperature Effects in Relation to Battery Capacity**



**Self Discharge Characteristics**

