

**UP-ST150-2**



Specification		
Nominal Voltage	2V	
Nominal Capacity (10HR)	150.0AH	
Dimension	Length	170±2mm (6.69 inches)
	Width	98±1mm (3.86 inches)
	Container Height	205±3mm (8.07 inches)
	Total Height (with Terminal)	212±3mm (8.35 inches)
Approx Weight	Approx 8.5kg (18.74lbs)	
Terminal	T7	
Container Material	ABS	
Rated Capacity	157.6AH/7.88A	(20hr, 1.80V/cell, 25°C/77°F)
	150.0AH/15.0A	(10hr, 1.80V/cell, 25°C/77°F)
	130.5AH/26.1A	(5hr, 1.75V/cell, 25°C/77°F)
	113.4AH/37.8A	(3hr, 1.75V/cell, 25°C/77°F)
	91.1AH/91.1A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 1.1mΩ	
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 45.0A.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	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	154.5	139.1	115.0	91.2	74.9	45.0	34.8	28.5	24.3	21.2	17.1	14.3	7.60
1.80V/cell	175.5	154.8	123.4	96.0	79.5	47.4	36.5	29.8	25.3	22.2	17.8	15.0	7.88
1.75V/cell	192.8	166.9	130.7	100.9	83.0	49.4	37.8	30.8	26.1	22.7	18.1	15.2	7.95
1.70V/cell	205.8	178.4	137.1	104.7	85.9	50.9	38.8	31.5	26.6	23.1	18.4	15.3	8.03
1.65V/cell	216.9	187.3	143.8	109.3	89.0	52.4	39.7	32.2	27.1	23.5	18.6	15.5	8.13
1.60V/cell	227.4	194.2	148.8	112.2	91.1	53.6	40.5	32.6	27.5	23.8	18.9	15.7	8.23

**Constant Power Discharge (Watts) at 25°C (77°F)**

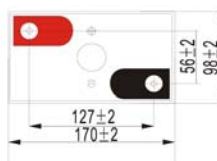
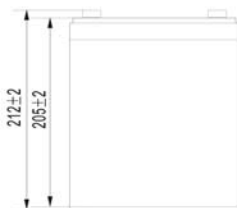
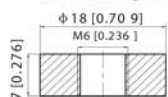
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	292.5	264.5	219.8	175.4	144.8	87.5	67.9	56.0	47.9	41.9	33.9	28.5	15.1
1.80V/cell	328.0	291.4	234.0	183.3	152.9	91.8	70.9	58.3	49.7	43.6	35.1	29.8	15.7
1.75V/cell	355.3	310.4	245.9	191.6	158.8	95.2	73.3	60.0	51.0	44.5	35.7	30.1	15.8
1.70V/cell	375.3	329.2	255.8	197.4	163.5	97.6	75.0	61.1	51.7	45.3	36.2	30.3	15.9
1.65V/cell	390.7	341.7	266.3	204.8	168.5	100.1	76.3	62.2	52.7	45.9	36.7	30.7	16.1
1.60V/cell	402.8	350.3	272.8	208.4	171.3	101.9	77.5	62.8	53.2	46.4	37.1	31.0	16.3



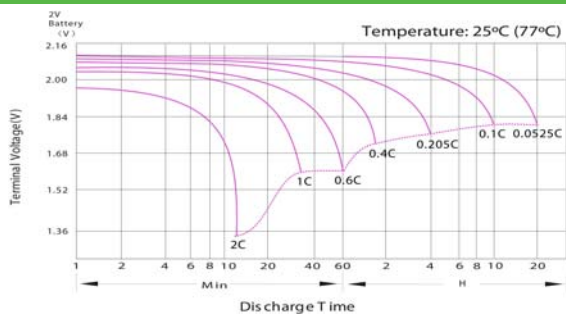
**UP-ST150-2**

**Dimensions**

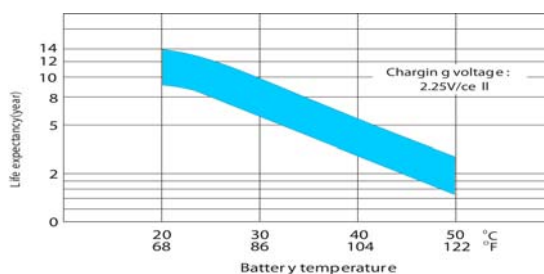
■ T7 Terminal  
Unit: mm [inches]



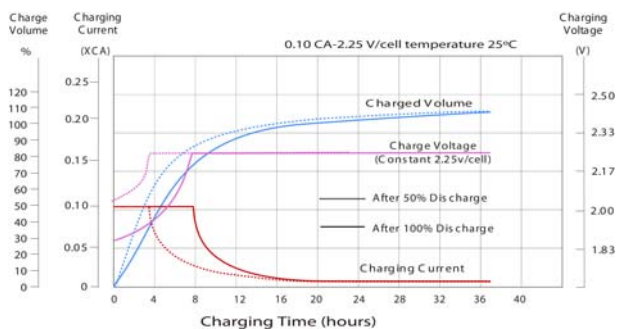
**Discharge Characteristics**



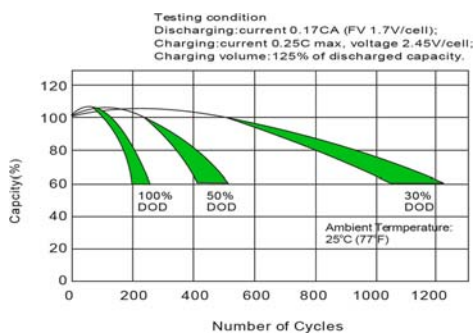
**Effect of Temperature on Long Term Float Life**



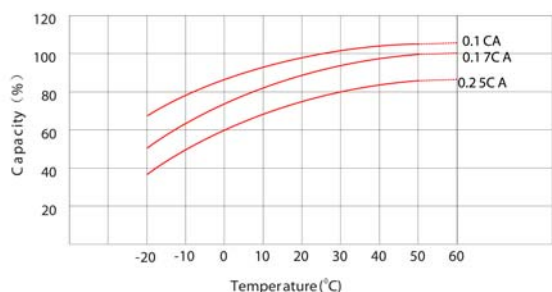
**Float Charging Characteristics**



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



**Temperature Effects in Relation to Battery Capacity**



**Self Discharge Characteristics**

