

## UP-SG150-2



Specification		
Nominal Voltage	2V	
Nominal Capacity (20HR)	144.0AH	
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 8.8kg (19.4lbs)
Terminal	T7	
Container Material	ABS	
Rated Capacity	144.0AH/72.0A	(20hr, 1.80V/cell, 25°C/77°F)
	135.0AH/13.5A	(10hr, 1.75V/cell, 25°C/77°F)
	116.0AH/23.2A	(5hr, 1.75V/cell, 25°C/77°F)
	101.1AH/33.7A	(3hr, 1.75V/cell, 25°C/77°F)
	79.2AH/79.2A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	1050A (5s)	
Internal Resistance	Approx 1.32mΩ	
Operating Temperature Range	Discharge: -20~55°C (-4~131°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -20~50°C (-4~122°F)	
Nominal Operating Temperature Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 30.0A.Voltage. 2.4V~2.5V 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 9 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	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	117.5	92.3	70.4	61.2	39.0	29.7	24.6	21.3	18.4	16.3	14.7	13.4	12.7	6.91
1.80V/cell	134.9	103.1	77.8	67.5	42.3	31.9	26.1	22.4	19.3	17.0	15.4	14.1	13.2	7.20
1.75V/cell	151.5	113.4	83.9	72.1	44.8	33.7	27.4	23.2	20.0	17.6	15.9	14.5	13.5	7.34
1.70V/cell	163.2	121.5	89.1	76.4	47.5	35.1	28.2	23.9	20.7	18.2	16.3	14.9	13.8	7.45
1.67V/cell	169.7	126.4	92.3	79.2	48.7	36.2	29.0	24.4	21.0	18.5	16.6	15.1	14.0	7.51
1.60V/cell	183.9	135.0	99.2	84.1	50.6	37.6	30.0	25.2	21.5	18.9	16.9	15.4	14.3	7.62

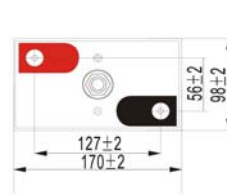
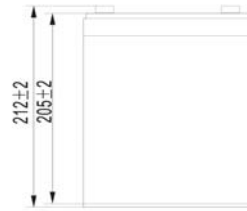
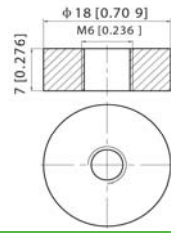
Constant Power Discharge (Watts) at 25°C (77°F)														
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	223.0	176.6	135.4	118.2	75.7	57.8	48.1	41.7	36.1	32.0	29.0	26.5	25.1	13.7
1.80V/cell	252.7	195.3	148.2	129.7	81.5	61.7	50.8	43.6	37.8	33.4	30.3	27.8	26.2	14.2
1.75V/cell	280.7	212.4	158.4	137.8	86.1	65.1	53.0	45.1	39.0	34.5	31.2	28.6	26.6	14.5
1.70V/cell	299.2	226.0	167.7	145.6	90.9	67.6	54.6	46.4	40.3	35.6	32.0	29.3	27.2	14.7
1.67V/cell	307.5	231.9	172.2	149.7	92.7	69.4	55.8	47.2	40.8	36.0	32.4	29.7	27.5	14.8
1.60V/cell	329.5	246.1	184.0	158.1	96.0	71.9	57.7	48.5	41.7	36.7	33.0	30.2	28.0	15.0



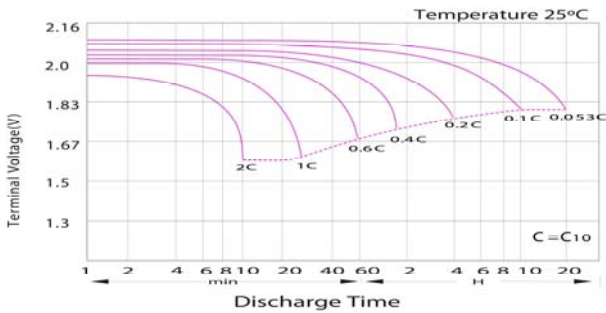
**UP-SG150-2**

**Dimensions**

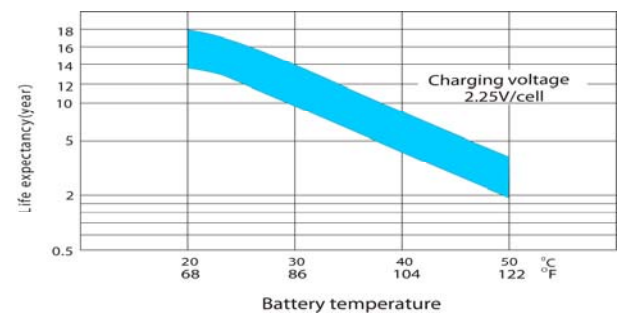
■ T7 Terminal  
Unit: mm [inches]



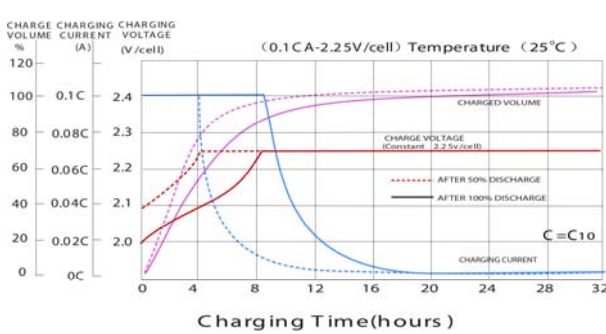
**Discharge Characteristics**



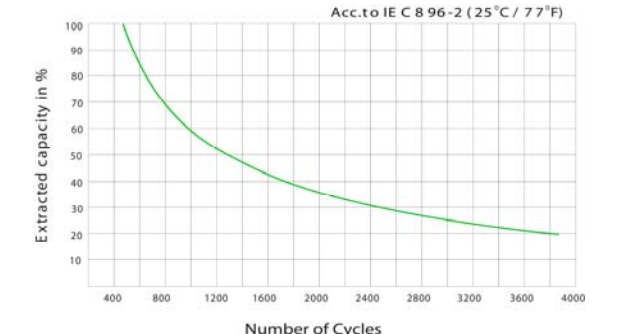
**Effect of Temperature on Long Term Float Life**



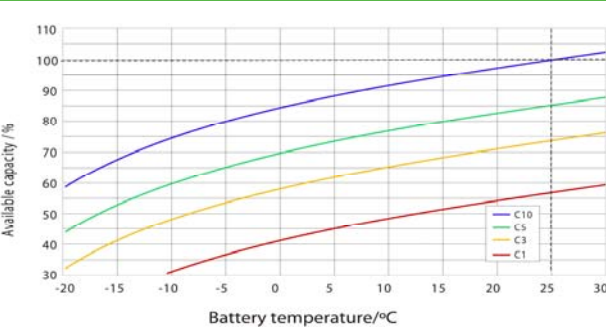
**Float Charging Characteristics**



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



**Temperature Effects in Relation to Battery Capacity**



**General Relation of Capacity VS. Storage Time**

