

## UP-SG100-2



Specification		
Nominal Voltage	2V	
Nominal Capacity (20HR)	96.0AH	
Dimension	Length	170±2mm (6.69 inches)
	Width	72±1mm (2.83 inches)
	Container Height	205±3mm (8.07 inches)
	Total Height (with Terminal)	212±3mm (8.35 inches)
	Approx Weight	Approx 6.2kg (13.67lbs)
Terminal	T6	
Container Material	ABS	
Rated Capacity	96.0AH/4.80A	(20hr, 1.80V/cell, 25°C/77°F)
	90.0AH/9.00A	(10hr, 1.75V/cell, 25°C/77°F)
	77.5AH/15.5A	(5hr, 1.75V/cell, 25°C/77°F)
	69.0AH/23.0A	(3hr, 1.75V/cell, 25°C/77°F)
	52.8AH/52.8A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	700A (5s)	
Internal Resistance	Approx 1.68mΩ	
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 20.0A.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.	

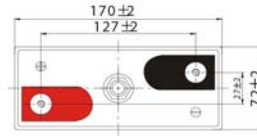
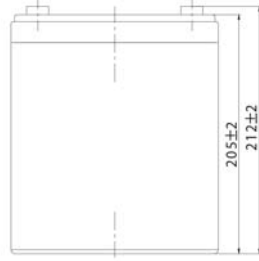
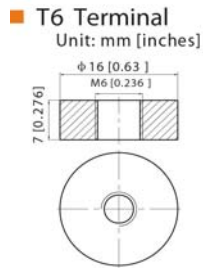
Constant Current Discharge (Amperes) at 25°C (77°F)														
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	74.5	64.6	51.7	41.6	27.3	20.9	17.2	14.7	12.8	11.2	10.3	9.38	8.67	4.66
1.80V/cell	88.1	75.9	58.9	46.6	29.6	21.7	17.9	15.1	13.1	11.4	10.6	9.65	8.91	4.80
1.75V/cell	96.4	79.4	62.6	49.0	30.7	23.0	18.3	15.5	13.5	11.7	10.8	9.81	9.00	4.87
1.70V/cell	102.7	83.3	65.3	50.9	32.0	23.7	18.9	15.9	13.9	12.2	11.2	10.10	9.19	4.92
1.67V/cell	110.5	88.7	67.1	52.8	32.9	24.7	19.7	16.4	14.3	12.4	11.4	10.30	9.39	4.97
1.60V/cell	119.3	94.5	70.2	54.9	34.0	25.5	20.4	16.7	14.5	12.6	11.5	10.50	9.60	5.03

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	139.6	122.8	99.5	80.5	52.8	40.7	33.6	28.8	25.1	22.2	20.3	18.5	17.2	9.22
1.80V/cell	163.3	142.1	111.9	89.6	57.1	42.1	34.7	29.4	25.6	22.4	20.8	19.0	17.6	9.49
1.75V/cell	177.1	147.8	118.2	93.7	59.1	44.4	35.5	30.1	26.3	22.9	21.2	19.3	17.8	9.62
1.70V/cell	187.5	154.0	122.9	96.9	61.3	45.6	36.5	30.9	27.2	23.9	22.0	19.8	18.1	9.72
1.67V/cell	200.2	162.6	125.1	99.8	62.7	47.5	37.9	31.7	27.9	24.2	22.2	20.2	18.5	9.81
1.60V/cell	213.9	172.3	130.2	103.2	64.6	48.8	39.2	32.2	28.2	24.5	22.5	20.6	18.9	9.90

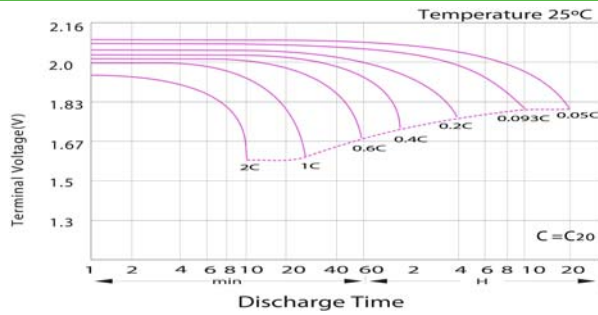


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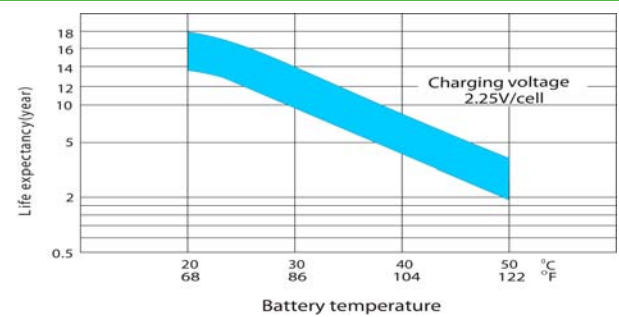
**Dimensions**



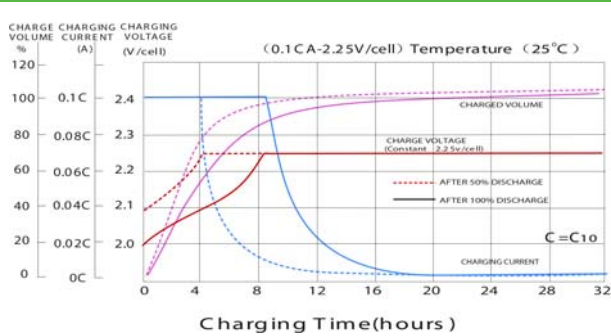
**Discharge Characteristics**



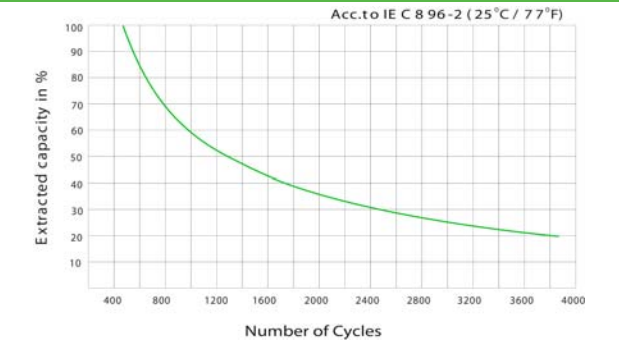
**Effect of Temperature on Long Term Float Life**



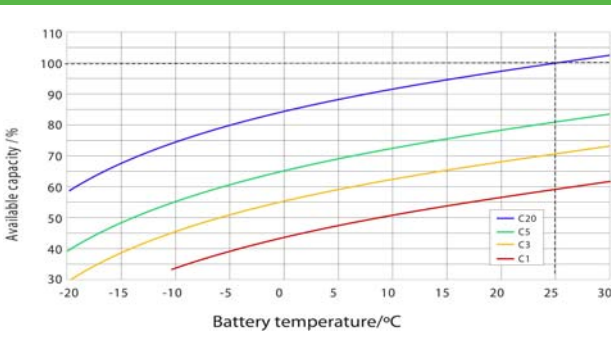
**Float Charging Characteristics**



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



**Temperature Effects in Relation to Battery Capacity**



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

