

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

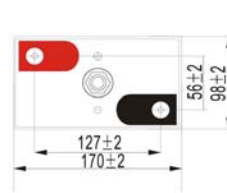
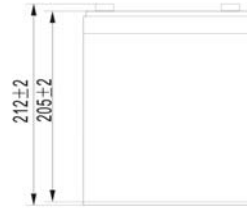
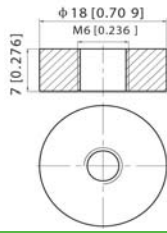
Constant Power Discharge (Watts) at 25°C (77°F)														
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	223.0	176.6	135.4	118.2	75.7	57.8	48.1	41.7	36.1	32.0	29.0	26.5	25.1	13.7
1.80V/cell	252.7	195.3	148.2	129.7	81.5	61.7	50.8	43.6	37.8	33.4	30.3	27.8	26.2	14.2
1.75V/cell	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



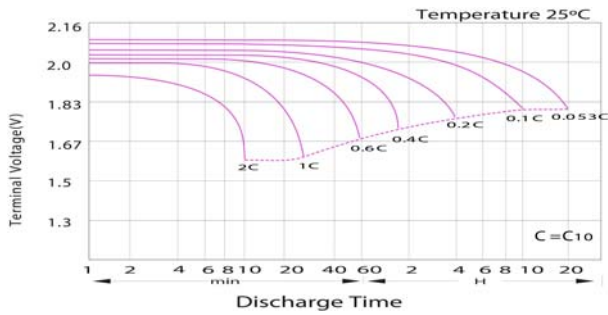
UP-SG150-2

Dimensions

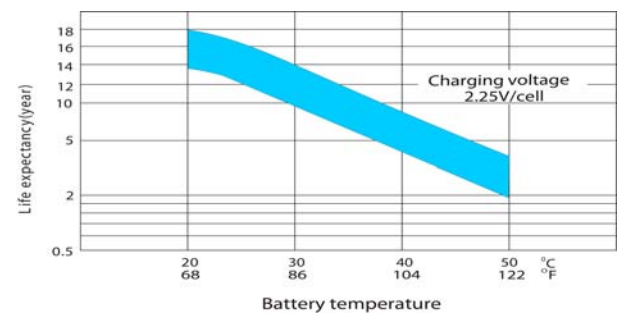
■ T7 Terminal
Unit: mm [inches]



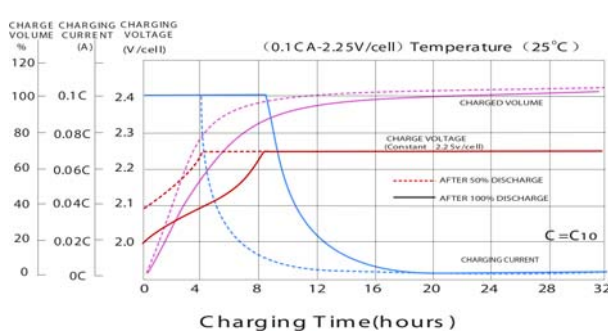
Discharge Characteristics



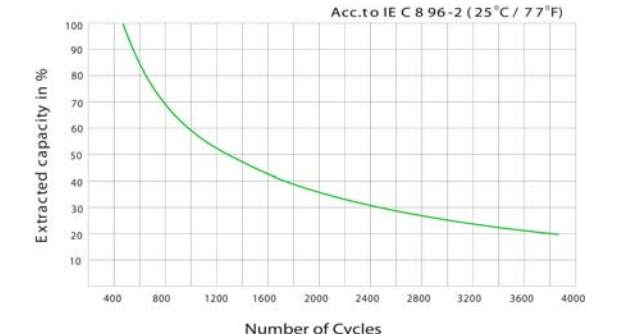
Effect of Temperature on Long Term Float Life



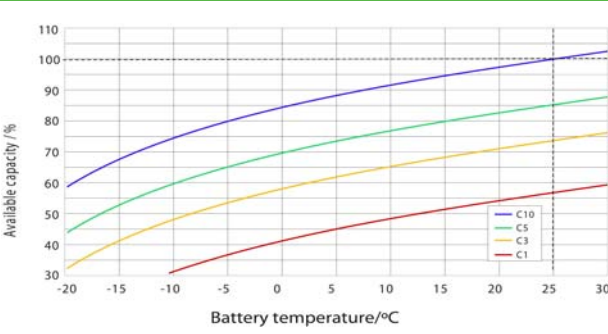
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



General Relation of Capacity VS. Storage Time

