

UP-SG1000-2



Specification		
Nominal Voltage	2V	
Nominal Capacity (10HR)	1000.0AH	
Dimension	Length	475±3mm (18.70 inches)
	Width	175±2mm (6.89 inches)
	Container Height	328±3mm (12.91 inches)
	Total Height (with Terminal)	338±3mm (13.31 inches)
Approx Weight	Approx 61.3kg (136.7lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	1066.7AH/53.335A	(20hr, 1.80V/cell, 25°C/77°F)
	1000.0AH/100.00A	(10hr, 1.75V/cell, 25°C/77°F)
	860.0AH/172.0A	(5hr, 1.75V/cell, 25°C/77°F)
	747.9AH/249.3A	(3hr, 1.75V/cell, 25°C/77°F)
	586.7AH/586.7A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	7000A (5s)	
Internal Resistance	Approx 0.54mΩ	
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 200.0A.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	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	684.0	521.3	453.0	289.0	220.3	182.5	157.6	136.0	120.4	108.6	99.2	93.9	51.20
1.80V/cell	764.0	576.0	500.0	313.0	236.0	193.5	165.6	142.8	126.0	113.9	104.4	98.1	53.34
1.75V/cell	840.0	621.3	534.0	331.5	249.3	202.8	172.0	147.8	130.6	117.5	107.6	100.0	54.40
1.70V/cell	900.0	660.0	566.0	351.5	259.7	209.3	177.2	153.0	134.9	121.0	110.3	102.4	55.15
1.67V/cell	936.0	684.0	586.7	360.5	268.0	214.5	181.0	155.5	136.9	122.8	111.9	103.6	55.65
1.60V/cell	\	734.7	623.0	375.0	278.7	222.5	186.6	159.3	139.7	125.0	114.2	105.6	56.45

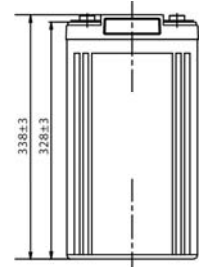
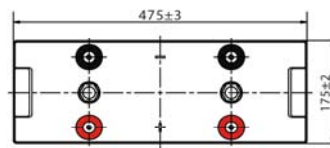
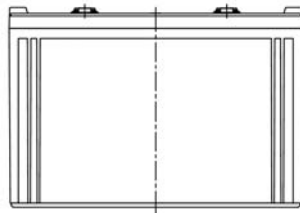
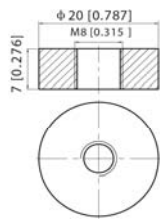
Constant Power Discharge (Watts) at 25°C (77°F)													
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	1307.8	1003.0	875.2	560.4	428.3	356.2	308.7	267.4	237.4	214.5	196.2	185.8	101.4
1.80V/cell	1447.0	1097.9	961.0	603.8	457.1	376.2	323.3	279.8	247.5	224.2	206.0	193.7	105.5
1.75V/cell	1573.3	1173.7	1021.0	637.8	482.0	392.9	334.2	288.6	255.8	230.9	211.9	197.3	107.5
1.70V/cell	1674.0	1242.1	1078.2	673.1	500.4	404.5	343.6	298.2	263.8	237.4	217.1	201.8	108.9
1.67V/cell	1717.6	1275.7	1108.9	686.8	514.3	413.3	349.7	302.1	266.9	240.2	219.6	203.9	109.7
1.60V/cell	\	1362.8	1171.2	711.0	532.3	427.4	359.4	308.6	271.7	244.1	223.9	207.5	111.2



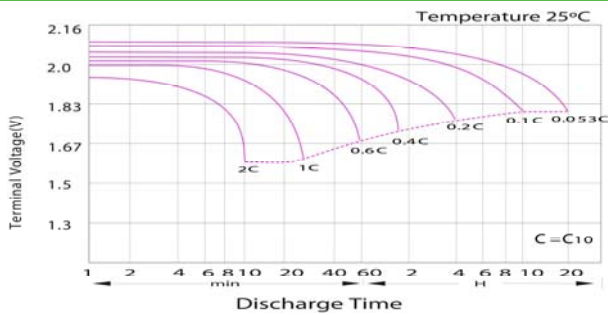
UP-SG1000-2

Dimensions

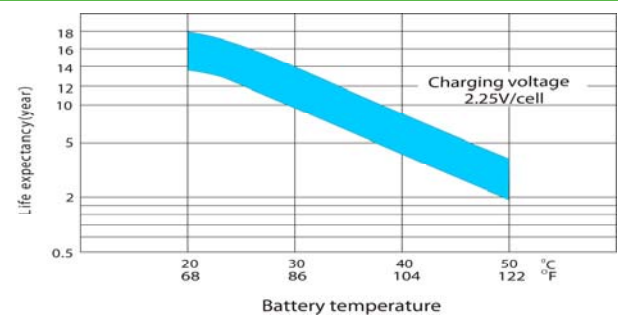
■ T11 Terminal
Unit: mm [inches]



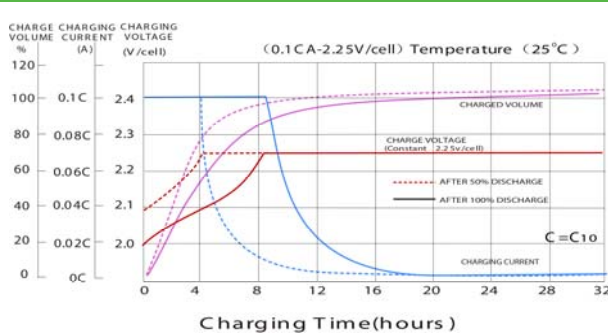
Discharge Characteristics



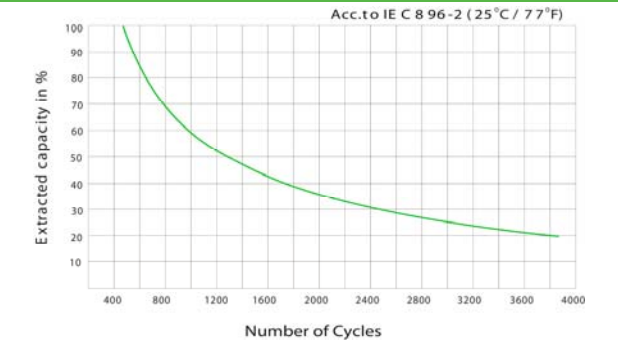
Effect of Temperature on Long Term Float Life



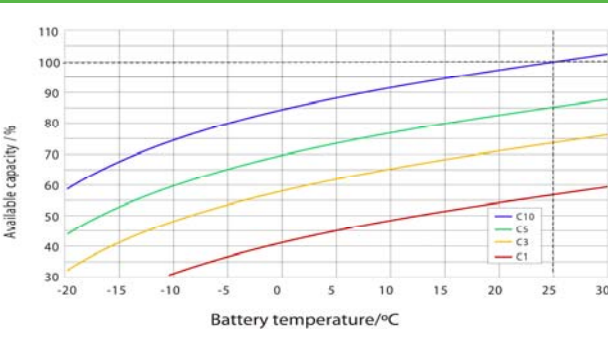
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



General Relation of Capacity VS. Storage Time

