

UP-SG500-2



Specification		
Nominal Voltage	2V	
Nominal Capacity (10HR)	500.0AH	
Dimension	Length	240±3mm (9.45 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±3mm (12.99 inches)
	Total Height (with Terminal)	340±3mm (13.39inches)
Approx Weight	Approx 30.0kg (66.15lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	533.4AH/26.67A	(20hr, 1.80V/cell, 25°C/77°F)
	500.0AH/50.00A	(10hr, 1.75V/cell, 25°C/77°F)
	430.0AH/86.0A	(5hr, 1.75V/cell, 25°C/77°F)
	374.1AH/124.7A	(3hr, 1.75V/cell, 25°C/77°F)
	293.3AH/293.3A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	3500A (5s)	
Internal Resistance	Approx 0.72mΩ	
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 100.0A.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	435.0	342.0	260.7	226.5	144.5	110.2	91.3	78.8	68.0	60.2	54.3	49.6	47.0	25.60
1.80V/cell	499.5	382.0	288.0	250.0	156.5	118.0	96.8	82.8	71.4	63.0	56.9	52.2	49.1	26.67
1.75V/cell	561.0	420.0	310.7	267.0	165.8	124.7	101.4	86.0	73.9	65.3	58.8	53.8	50.0	27.20
1.70V/cell	604.5	450.0	330.0	283.0	175.8	129.8	104.6	88.6	76.5	67.4	60.5	55.2	51.2	27.58
1.67V/cell	628.5	468.0	342.0	293.3	180.3	134.0	107.3	90.5	77.8	68.4	61.4	55.9	51.8	27.83
1.60V/cell	681.0	500.0	367.3	311.5	187.5	139.3	111.3	93.3	79.7	69.9	62.5	57.1	52.8	28.23

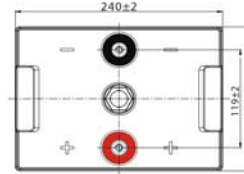
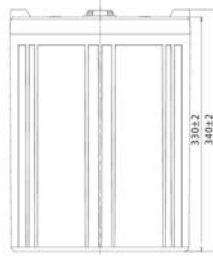
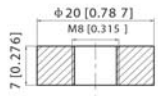
Constant Power Discharge (Watts) at 25°C (77°F)														
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	826.1	653.9	501.5	437.6	280.2	214.2	178.1	154.4	133.7	118.7	107.3	98.1	92.9	50.7
1.80V/cell	936.1	723.5	548.9	480.5	301.9	228.6	188.1	161.6	139.9	123.7	112.1	103.0	96.9	52.7
1.75V/cell	1039.5	786.7	586.8	510.5	318.9	241.0	196.5	167.1	144.3	127.9	115.4	105.9	98.7	53.7
1.70V/cell	1108.0	837.0	621.1	539.1	336.6	250.2	202.2	171.8	149.1	131.9	118.7	108.6	100.9	54.4
1.67V/cell	1138.8	858.8	637.8	554.3	343.4	257.1	206.7	174.8	151.1	133.4	120.1	109.8	101.9	54.9
1.60V/cell	1220.4	911.5	681.4	585.6	355.5	266.1	213.7	179.7	154.3	135.9	122.1	111.9	103.8	55.6



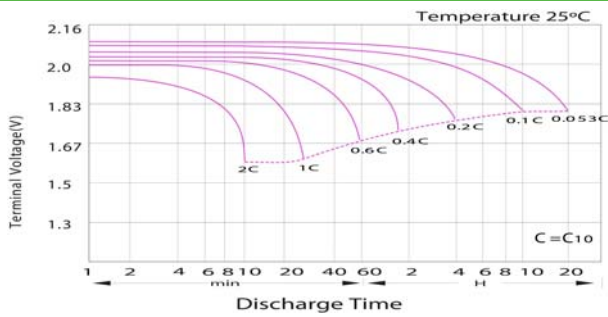
UP-SG500-2

Dimensions

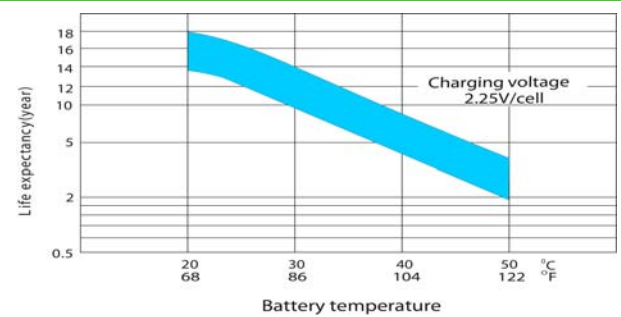
■ T11 Terminal
Unit: mm [inches]



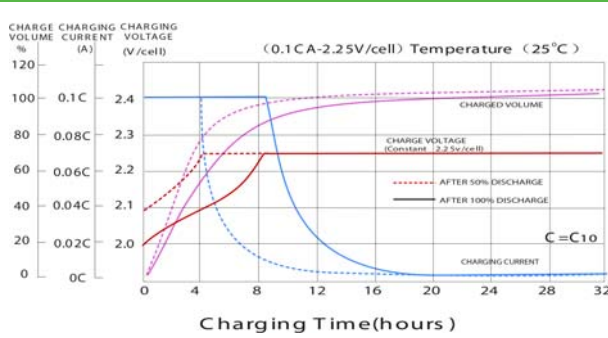
Discharge Characteristics



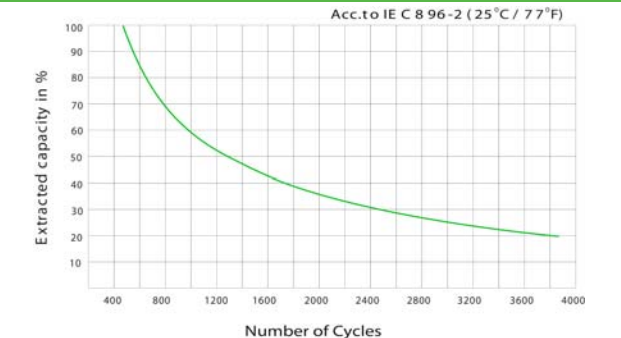
Effect of Temperature on Long Term Float Life



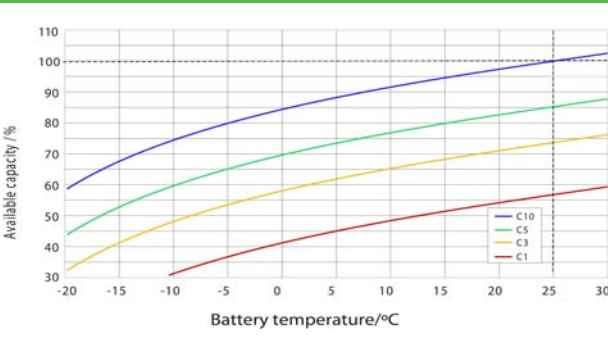
Float Charging Characteristics



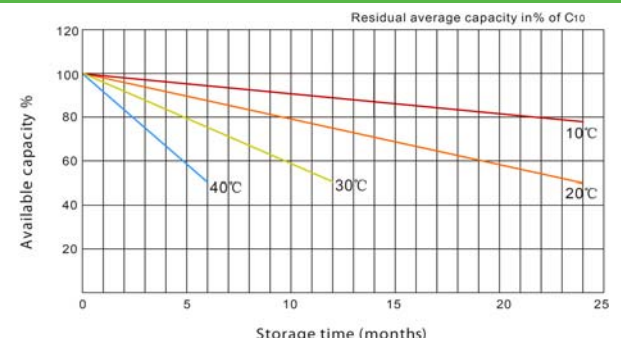
Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



General Relation of Capacity VS. Storage Time



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