

UP-ST400-2



Specification		
Nominal Voltage	2V	
Nominal Capacity (10HR)	400.0AH	
Dimension	Length	210±3mm (8.27 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±3mm (12.99 inches)
	Total Height (with Terminal)	350±3mm (13.78 inches)
	Approx Weight	Approx 24.3kg (53.6lbs)
Terminal	T11	
Container Material	ABS	
Rated Capacity	420.0AH/21.0A	(20hr, 1.80V/cell, 25°C/77°F)
	400.0AH/40.0A	(10hr, 1.80V/cell, 25°C/77°F)
	348.0AH/69.6A	(5hr, 1.75V/cell, 25°C/77°F)
	302.4AH/100.8A	(3hr, 1.75V/cell, 25°C/77°F)
	242.8AH/242.8A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	3200A (5s)	
Internal Resistance	Approx 0.7mΩ	
Operating Temperature Range	Discharge: -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	
Nominal Operating Temperature Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 120.0A.Voltage. 2.4V~2.5.0V 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 6 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	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	412.0	370.8	306.7	243.2	199.6	119.9	92.7	76.1	64.8	56.6	45.6	38.2	20.3
1.80V/cell	468.0	412.8	329.1	255.9	212.0	126.5	97.2	79.5	67.5	59.1	47.4	40.0	21.0
1.75V/cell	/	445.0	348.5	269.0	221.2	131.7	100.8	82.2	69.6	60.5	48.3	40.4	21.2
1.70V/cell	/	475.9	365.7	279.2	228.9	135.6	103.5	84.0	70.8	61.6	49.0	40.8	21.4
1.65V/cell	/	/	383.6	291.3	237.2	139.7	105.7	85.8	72.3	62.7	49.7	41.3	21.7
1.60V/cell	/	/	396.8	299.2	242.8	143.0	108.0	87.0	73.4	63.5	50.4	41.8	21.9

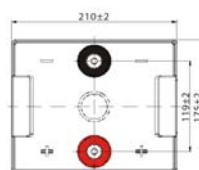
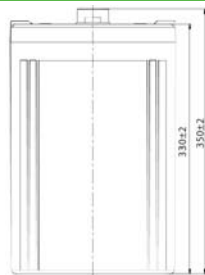
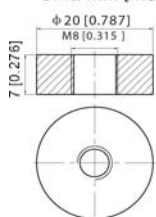
Constant Power Discharge (Watts) at 25°C (77°F)													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	780.1	705.3	586.2	467.6	386.1	233.2	181.1	149.3	127.7	111.8	90.5	76.0	40.3
1.80V/cell	874.8	776.9	623.9	488.7	407.8	244.9	189.1	155.4	132.4	116.4	93.7	79.4	41.7
1.75V/cell	/	827.8	655.6	510.9	423.6	254.0	195.6	160.1	136.0	118.8	95.2	80.1	42.1
1.70V/cell	/	877.8	682.2	526.4	436.1	260.4	200.0	163.0	138.0	120.7	96.6	80.9	42.5
1.65V/cell	/	/	710.2	546.3	449.3	267.1	203.5	165.9	140.4	122.4	97.8	81.8	43.0
1.60V/cell	/	/	727.3	555.8	456.7	271.7	206.7	167.5	141.9	123.7	98.8	82.6	43.4



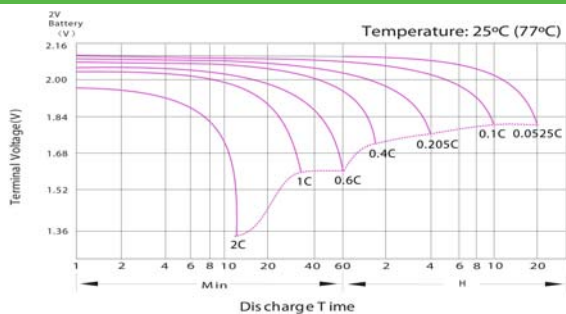
UP-ST400-2

Dimensions

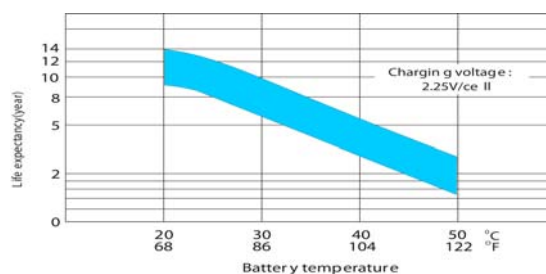
T11 Terminal
Unit: mm [inches]



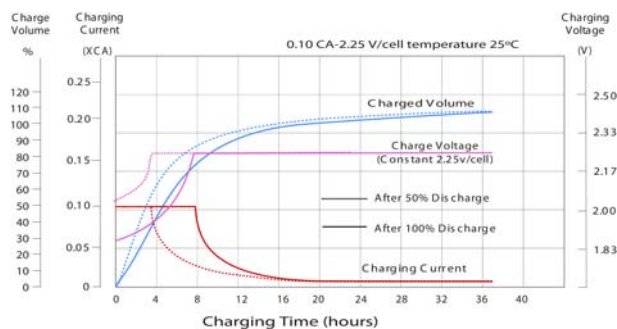
Discharge Characteristics



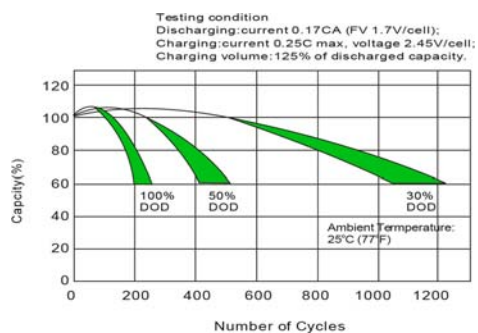
Effect of Temperature on Long Term Float Life



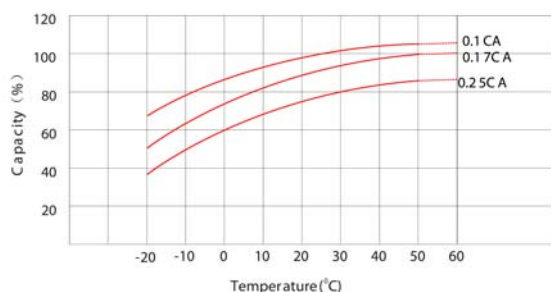
Float Charging Characteristics



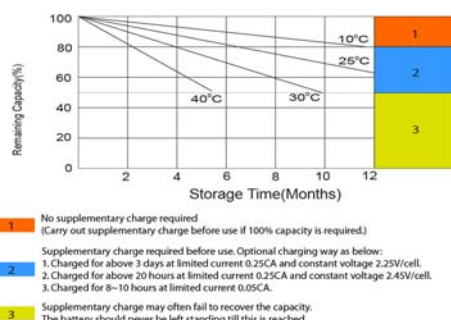
Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



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