

UP-PLH400-12FT



Specification		
Nominal Voltage	12V	
Nominal Capacity (10HR)	100.0AH	
Dimension	Length	397±3mm (15.63 inches)
	Width	108±2mm (4.25 inches)
	Container Height	287±2mm (11.30 inches)
	Total Height (with Terminal)	287±2mm (11.30 inches)
Approx Weight	Approx 31.0Kg (68.2 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	100.0AH/10.0A (10hr, 1.80V/cell, 25°C/77°F)	
Power (Watts)	400Watts/cell (15min, 1.67V/cell, 25°C/77°F)	
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 4.5mΩ	
Operating Temperature Range	Discharge: -40~65°C (-40~149°F)	
	Change : 0~40°C (32~104°F)	
	Storage : -20~40°C (-4~104°F)	
Nominal Operating Temperature Range	25±3°C (77±5°F)	
Capacity affected by Temperature	40°C (104°F) 103%	
	25°C (77°F) 100%	
	0°C (32°F) 86%	
Self Discharge	Batteries can be stored up to 24 months at 25°C (77°F) and then a freshening charge is required.	



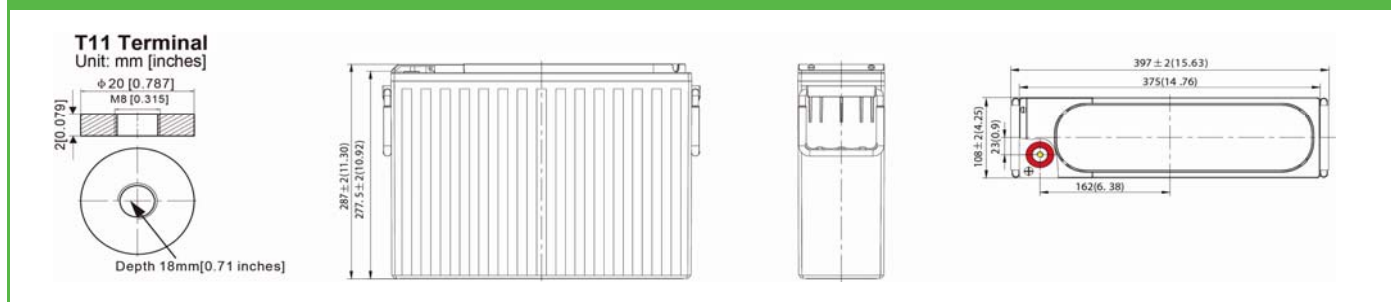
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	280.6	214.4	166.2	136.8	104.2	75.7	59.8	33.5	24.5	19.7	16.6	11.7	9.79	5.10
1.80V/cell	312.0	233.9	178.8	147.1	109.6	79.1	61.9	34.8	25.3	20.3	17.1	11.9	10.0	5.20
1.75V/cell	333.2	248.8	190.8	153.9	113.2	81.1	63.5	35.5	25.8	20.6	17.4	12.0	10.1	5.24
1.70V/cell	353.9	263.7	202.6	161.4	116.7	83.2	64.9	36.1	26.2	21.0	17.7	12.2	10.1	5.28
1.67V/cell	368.8	272.3	209.2	168.9	120.6	85.2	66.6	36.7	26.6	21.3	17.9	12.2	10.2	5.31
1.60V/cell	379.5	277.2	213.2	171.6	122.6	86.7	67.7	37.1	26.9	21.5	18.0	12.3	10.3	5.35

Constant Power Discharge (Watts/cell) at 25°C (77°F)

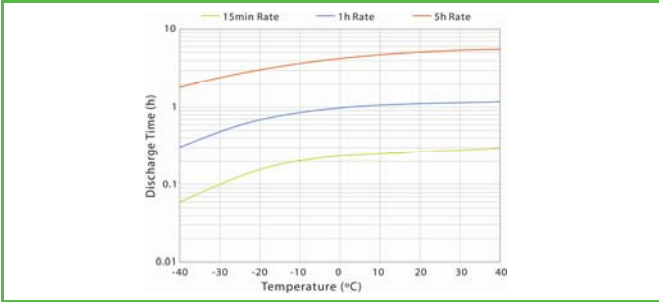
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	531.5	411.6	322.7	266.2	204.2	149.5	118.6	66.9	49.1	39.5	33.5	23.6	19.9	10.40
1.80V/cell	584.5	444.8	344.0	284.5	213.5	155.3	122.1	69.1	50.5	40.6	34.3	24.0	20.3	10.57
1.75V/cell	616.8	467.8	363.6	294.9	218.6	158.2	124.3	70.1	51.1	41.0	34.8	24.2	20.4	10.62
1.70V/cell	646.6	489.2	381.9	306.3	223.5	161.3	126.4	71.2	51.8	41.6	35.2	24.4	20.4	10.66
1.67V/cell	663.2	498.7	400.0	317.2	229.2	163.9	128.9	71.9	52.5	42.0	35.5	24.5	20.5	10.71
1.60V/cell	670.5	501.3	401.7	318.8	230.7	165.3	130.0	72.2	52.7	42.2	35.6	24.6	20.5	10.75

Dimensions

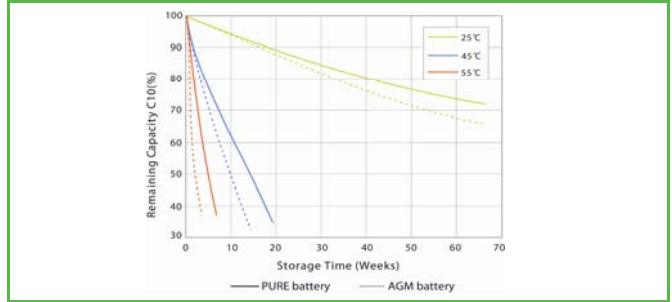


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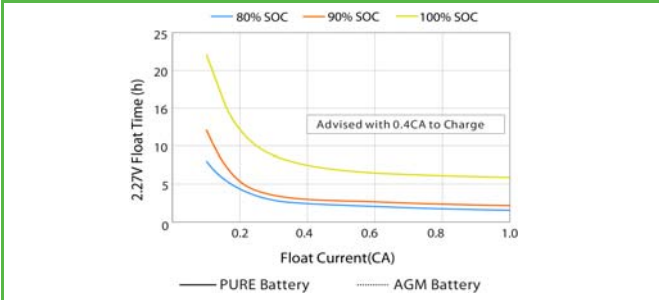
Effect of Temperature on Discharge Time



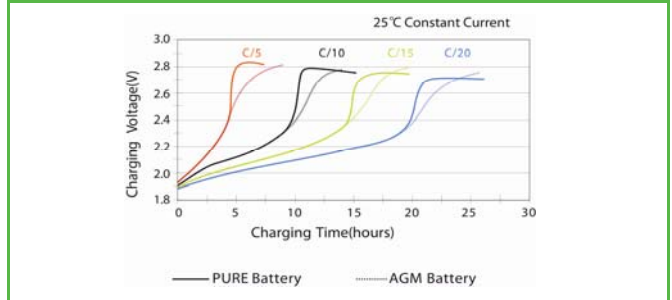
Self Discharge Characteristics



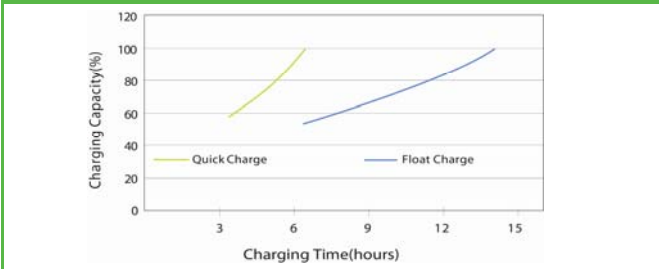
Float Current vs Float Time



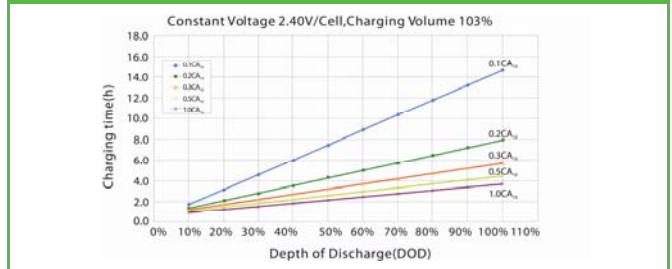
Voltage Profiles @25°C Constant Current Charging



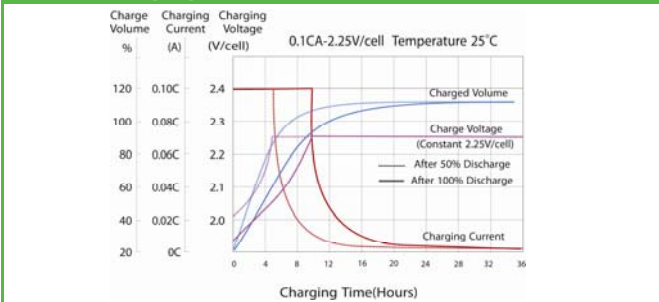
Quick Charge / Float Charge



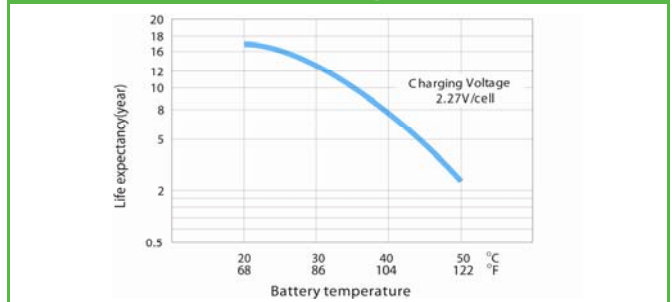
Charge Time vs The Depth of Discharge



Float Charging Characteristics



Effect of Temperature on Long Term Float Life



Charge Voltage Compensation

