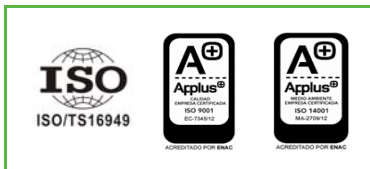


UP-PL 150-12FT



Specification		
Nominal Voltage	12V	
Nominal Capacity (10HR)	150.0AH	
Dimension	Length	562±3mm (22.13 inches)
	Width	125±2mm (4.92 inches)
	Container Height	260±2mm (10.24 inches)
	Total Height (with Terminal)	260±2mm (10.24 inches)
Approx Weight	Approx 46.5Kg (102.3 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	150.0AH/15.0A	(10hr, 1.80V/cell, 25°C/77°F)
	143.2AH/17.9A	(8hr, 1.75V/cell, 25°C/77°F)
Max. Discharge Current	1400A (5s)	
Internal Resistance	Approx 3.6mΩ	
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.	



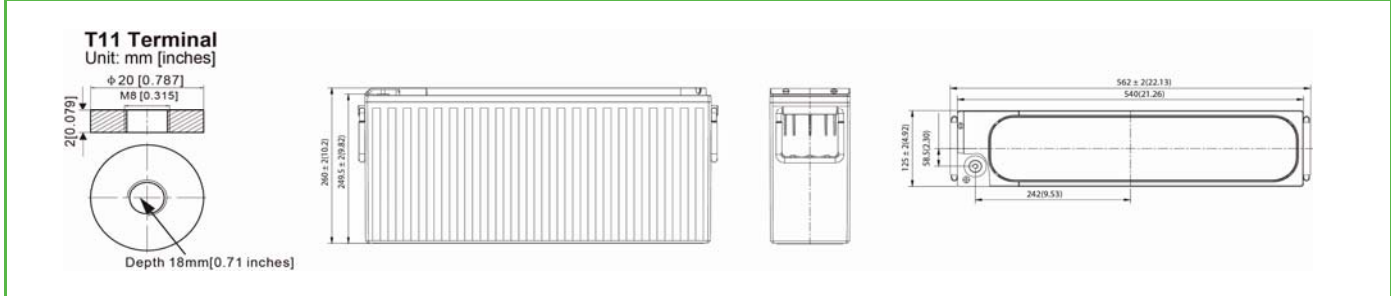
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	268.7	230.4	198.4	152.1	113.6	90.7	51.0	37.0	29.6	24.7	17.0	14.5	7.69
1.80V/cell	300.2	250.6	212.4	160.8	119.1	94.8	53.3	38.6	30.9	25.8	17.6	15.0	7.95
1.75V/cell	323.4	266.1	224.4	166.8	123.3	97.9	54.6	39.7	31.7	26.5	17.9	15.2	8.07
1.70V/cell	347.5	280.5	233.1	172.3	126.4	99.8	55.7	40.4	32.1	26.9	18.2	15.4	8.14
1.67V/cell	369.4	293.8	240.1	175.5	128.1	101.2	56.4	41.0	32.5	27.1	18.4	15.5	8.20
1.60V/cell	393.1	305.3	247.9	180.2	130.5	103.0	57.2	41.5	32.9	27.4	18.6	15.6	8.25

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

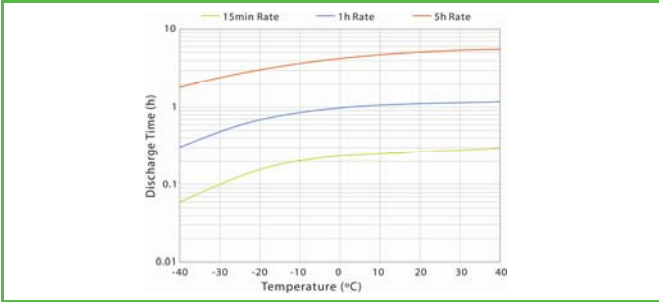
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	509.7	440.8	381.8	296.1	224.4	179.7	102.0	74.1	59.6	49.9	34.4	29.5	15.7
1.80V/cell	560.4	473.0	404.7	311.0	233.9	187.0	105.9	77.0	61.9	51.8	35.5	30.4	16.2
1.75V/cell	597.7	497.6	423.9	320.0	240.6	191.8	108.0	78.8	63.3	53.0	36.1	30.8	16.4
1.70V/cell	632.4	518.2	436.0	327.8	245.2	194.5	109.6	79.9	64.0	53.6	36.6	30.9	16.5
1.67V/cell	665.6	537.3	445.7	332.5	247.3	196.5	110.6	80.8	64.5	54.0	36.9	31.1	16.5
1.60V/cell	696.6	550.1	455.0	338.1	250.0	198.2	111.3	81.3	64.9	54.2	37.1	31.2	16.6

Dimensions

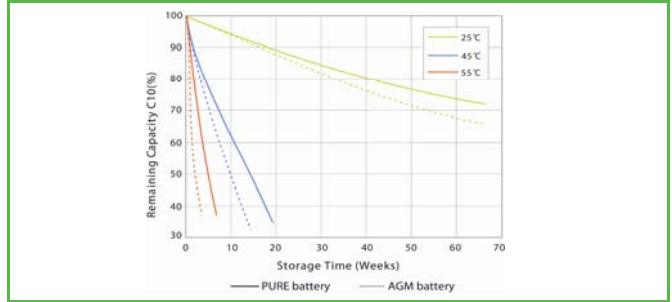


UP-PL150-12FT

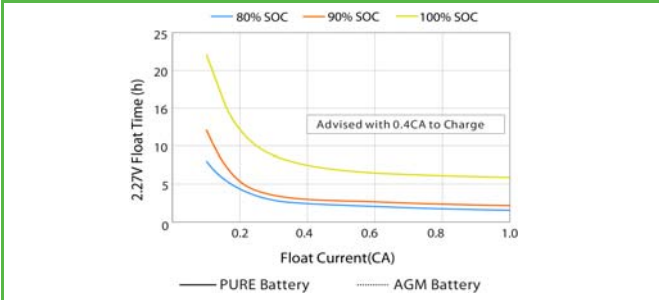
Effect of Temperature on Discharge Time



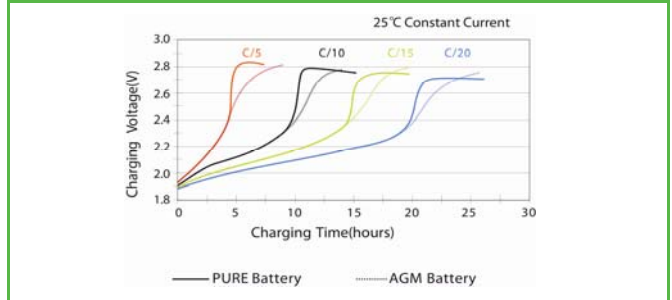
Self Discharge Characteristics



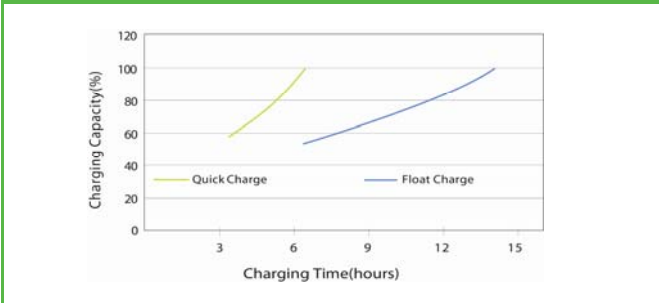
Float Current vs Float Time



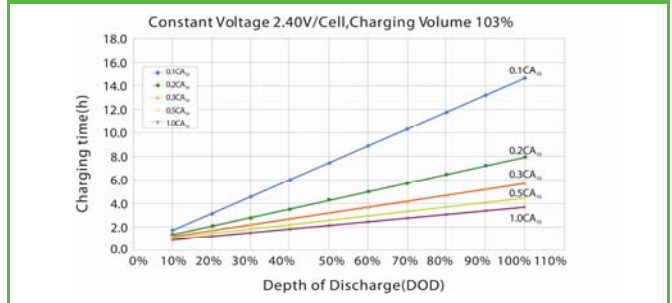
Voltage Profiles @25°C Constant Current Charging



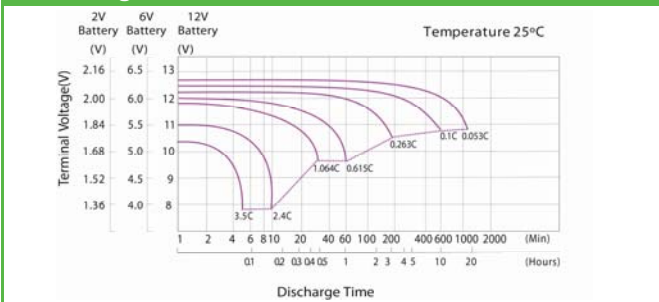
Quick Charge / Float Charge



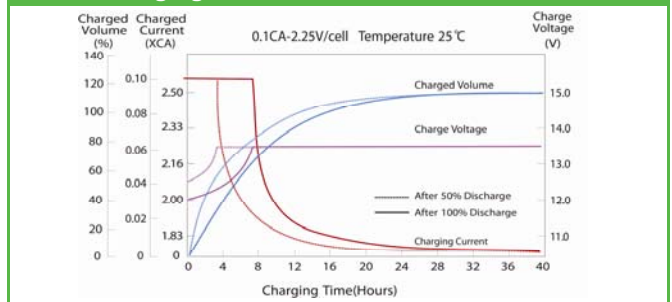
Charge Time vs The Depth of Discharge



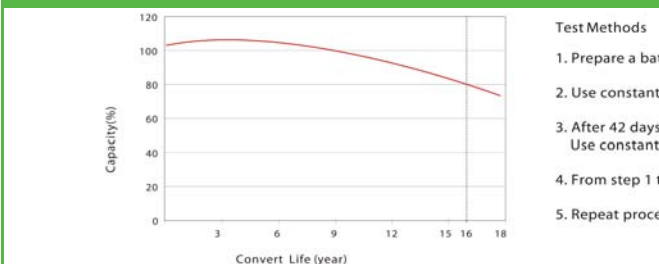
Discharge Characteristics



Float Charging Characteristics



Float Life



Test Methods

1. Prepare a battery which past 1h rate capacity testing in 55 ± 2°C ambient testing temperature for test.
2. Use constant voltage 2.25V/cell to charge for 42 days.
3. After 42 days, take the battery out and put in 25 ± 2°C ambient temperature for 1h rate discharging test. Use constant voltage 2.35V/cell to charge battery for 24 hours.
4. From step 1 to 3 is a testing cycle which can be converted into 1 year service life.
5. Repeat procedure 1, 2, 3 till the capacity less than 80% of 1hour rate capacity.

