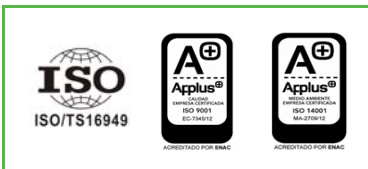


**UP-PLHL100-12**



Specification	
Nominal Voltage	12V
Nominal Capacity (10HR)	82.0AH
Dimension	Length 341.5±3mm (13.44 inches)
	Width 175±2mm (6.89 inches)
	Container Height 213±2mm (8.39 inches)
	Total Height (with Terminal) 215±2mm (8.46 inches)
Approx Weight	Approx 32.5Kg (71.5lbs)
Terminal	T11
Container Material	ABS
Rated Capacity	88.0AH/4.40A (20hr, 1.80V/cell, 25°C/77°F)
	82.0AH/8.20A (10hr, 1.80V/cell, 25°C/77°F)
Max. Discharge Current	1250A (5s)
Internal Resistance	Approx 4.0mΩ
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.



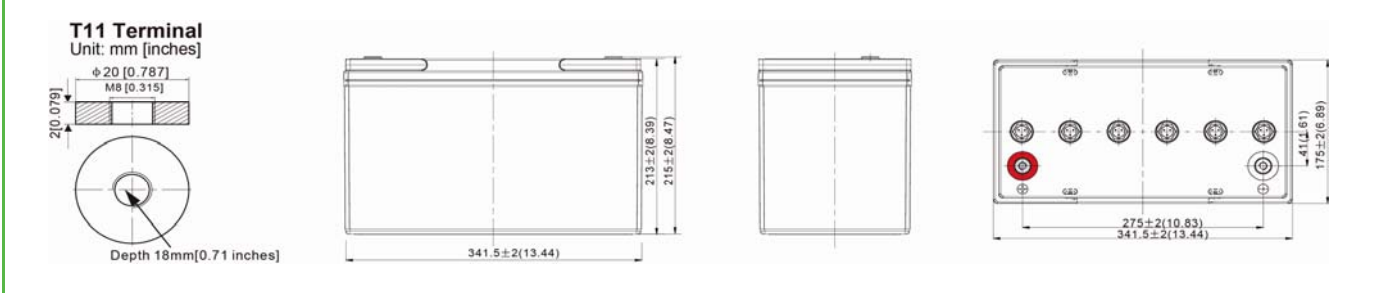
**Constant Current Discharge (Amperes/cell) at 25°C (77°F)**

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	140.4	117.7	102.4	80.3	61.6	50.0	29.1	20.6	16.1	13.3	9.33	7.81	4.19
1.80V/cell	156.0	129.6	111.2	85.9	65.6	53.1	30.7	21.6	16.9	14.0	9.77	8.20	4.40
1.75V/cell	166.1	136.4	117.3	89.7	67.6	54.7	31.3	22.0	17.2	14.1	9.88	8.29	4.45
1.70V/cell	177.3	143.3	122.0	92.0	69.1	56.1	31.8	22.3	17.3	14.3	9.96	8.35	4.48
1.67V/cell	185.9	149.2	125.0	95.0	70.8	57.2	32.1	22.5	17.5	14.4	10.03	8.40	4.51
1.60V/cell	193.6	155.8	128.7	97.3	72.5	58.3	32.5	22.8	17.6	14.6	10.12	8.45	4.53

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

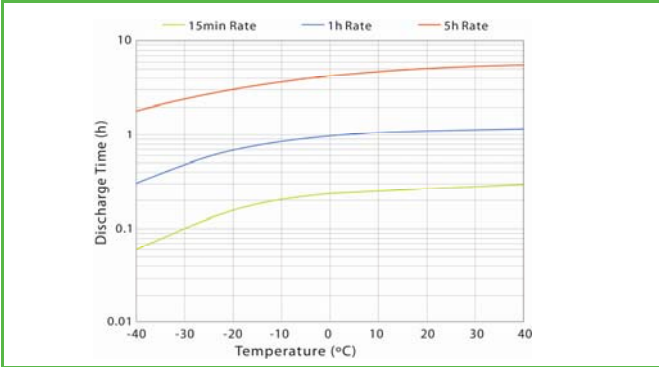
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	266.9	225.2	197.0	156.4	121.7	99.2	58.1	41.3	32.4	26.8	18.90	15.88	8.55
1.80V/cell	292.1	244.6	211.9	166.2	128.9	104.8	61.0	43.3	34.0	28.1	19.73	16.61	8.94
1.75V/cell	307.7	255.1	221.7	172.1	131.8	107.2	61.9	43.8	34.3	28.3	19.90	16.75	9.02
1.70V/cell	324.7	265.6	228.3	175.0	134.0	109.4	62.5	44.1	34.5	28.5	20.00	16.82	9.05
1.67V/cell	335.0	273.0	232.0	179.8	136.8	111.1	63.0	44.4	34.6	28.7	20.11	16.87	9.08
1.60V/cell	341.5	279.8	234.8	181.9	138.4	112.2	63.3	44.6	34.7	28.9	20.15	16.88	9.09

**Dimensions**

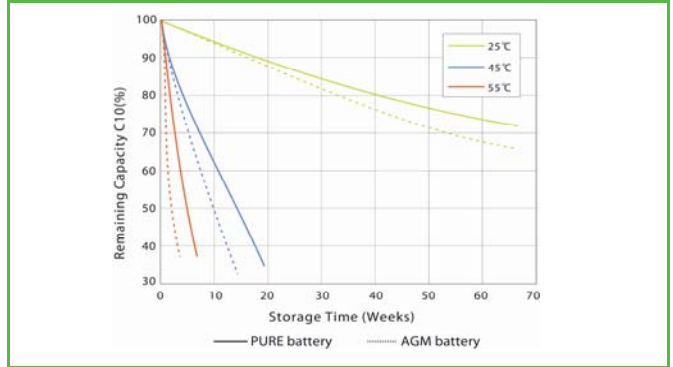


**UP-PLHL100-12**

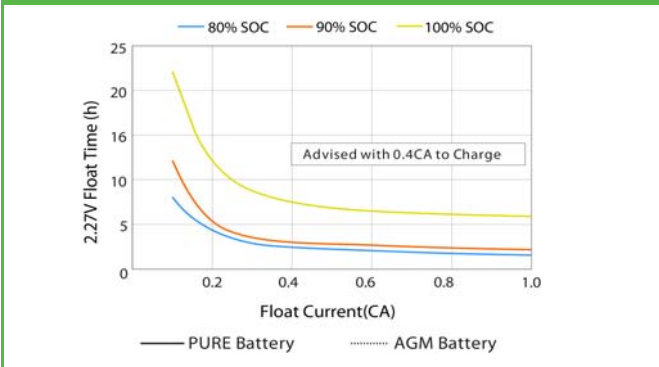
**Effect of Temperature on Discharge Time**



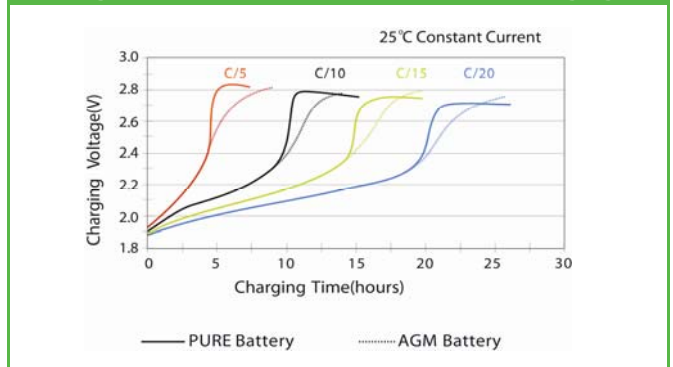
**Self Discharge Characteristics**



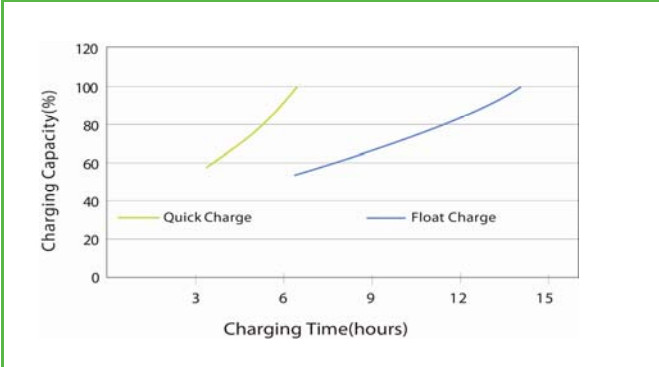
**Float Current vs Float Time**



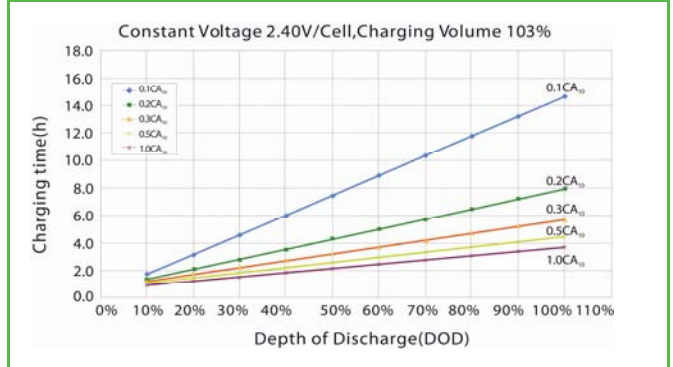
**Voltage Profiles @25°C Constant Current Charging**



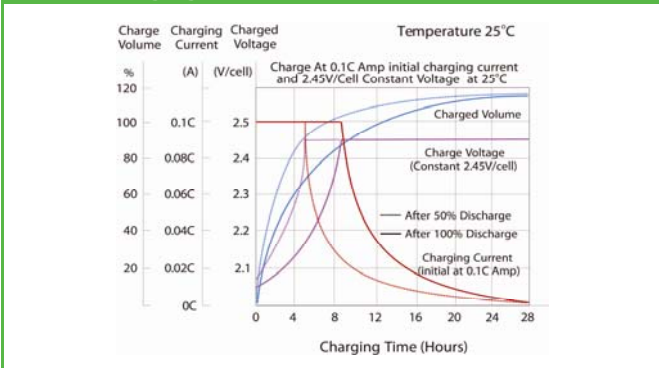
**Quick Charge / Float Charge**



**Charge Time vs The Depth of Discharge**



**Float Charging Characteristics**



**Cycle Life vs Depth of Discharge**

