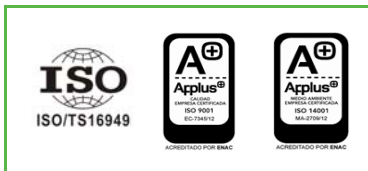


UP-PLHL100-12FT



Specification		
Nominal Voltage	12V	
Nominal Capacity (10HR)	82.0AH	
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	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	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.	



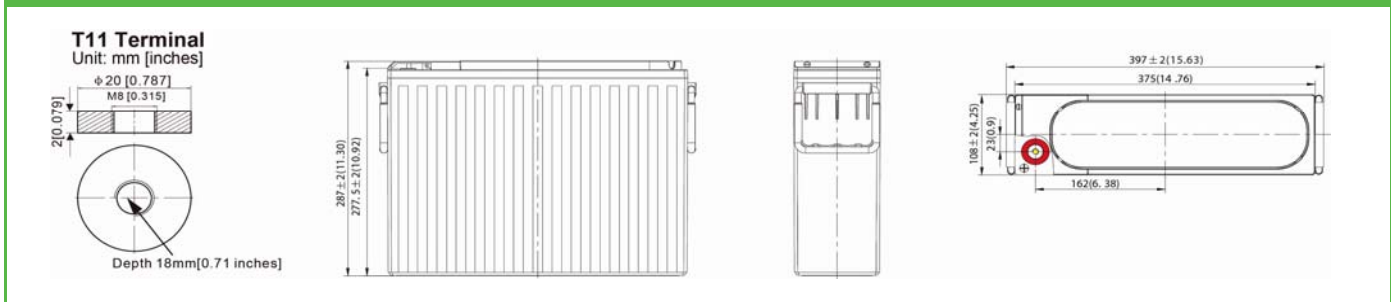
Constant Current Discharge (Amperes/cell) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	124.8	114.1	101.0	76.8	56.5	46.1	27.5	20.1	15.9	13.3	9.33	7.81	4.19
1.80V/cell	140.9	123.7	107.9	82.2	61.3	49.8	29.2	21.1	16.7	14.0	9.77	8.20	4.40
1.75V/cell	152.8	130.9	113.3	87.0	63.9	51.4	29.8	21.5	16.9	14.1	9.88	8.29	4.45
1.70V/cell	165.3	139.4	118.3	89.9	66.0	52.7	30.3	21.7	17.1	14.3	9.96	8.35	4.48
1.67V/cell	174.4	145.6	122.0	92.6	67.7	53.9	30.7	21.9	17.2	14.4	10.03	8.40	4.51
1.60V/cell	182.6	151.0	125.7	95.0	69.0	54.9	31.1	22.2	17.5	14.6	10.12	8.45	4.53

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

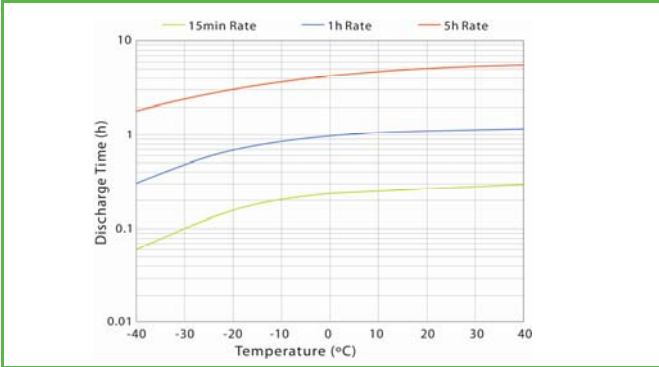
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	237.3	218.4	194.3	149.4	111.7	91.3	54.9	40.3	32.0	26.8	18.90	15.88	8.55
1.80V/cell	263.8	233.5	205.5	158.9	120.5	98.2	58.2	42.2	33.4	28.1	19.73	16.61	8.94
1.75V/cell	283.1	244.8	214.0	166.8	124.7	100.7	59.0	42.7	33.7	28.3	19.90	16.75	9.02
1.70V/cell	302.7	258.3	221.3	171.1	128.0	102.7	59.6	43.0	34.0	28.5	20.00	16.82	9.05
1.67V/cell	314.2	266.4	226.5	175.4	130.7	104.6	60.1	43.3	34.2	28.7	20.11	16.87	9.08
1.60V/cell	322.1	271.2	229.5	177.7	131.7	105.7	60.5	43.5	34.4	28.9	20.13	16.88	9.09

Dimensions

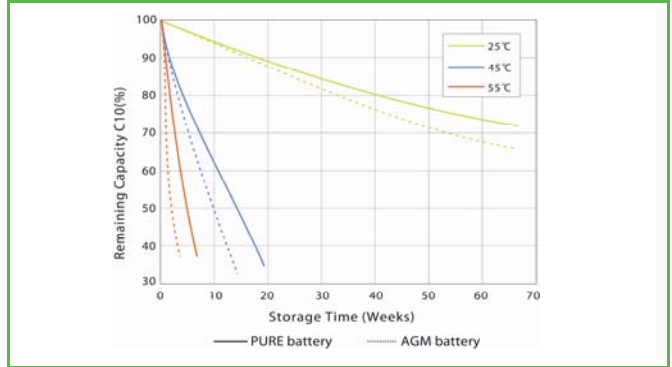


UP-PLHL100-12FT

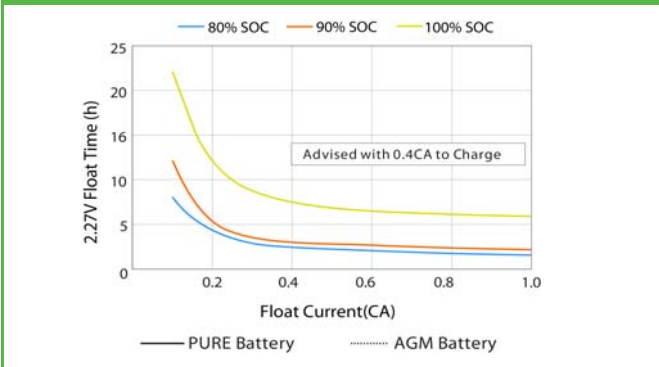
Effect of Temperature on Discharge Time



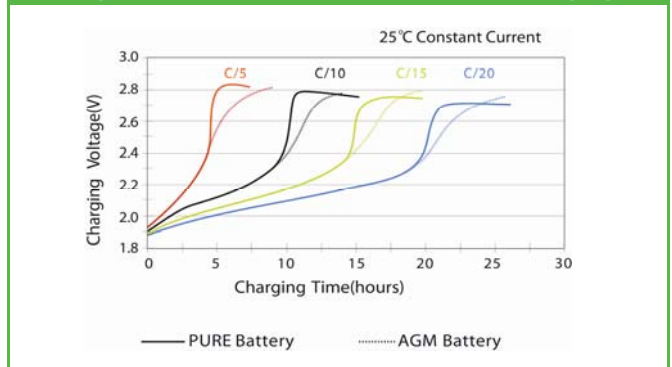
Self Discharge Characteristics



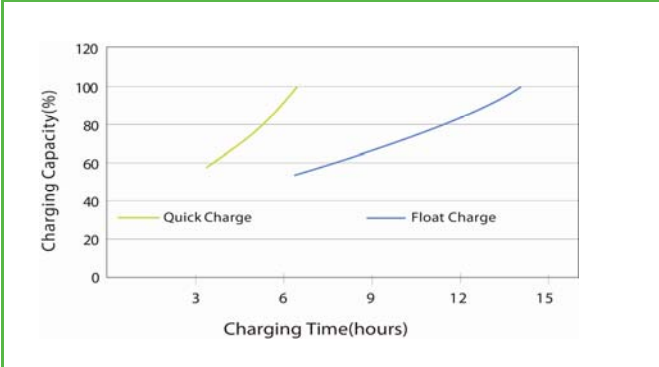
Float Current vs Float Time



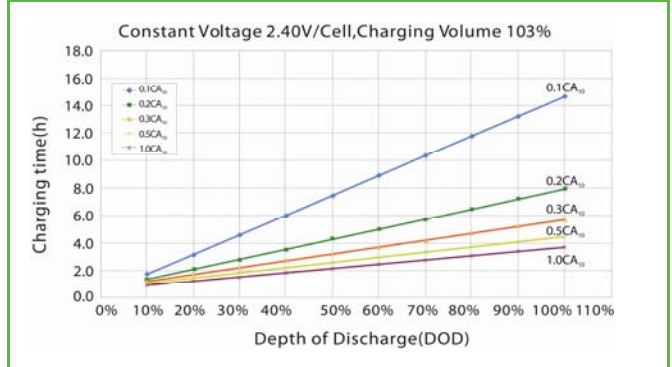
Voltage Profiles @25°C Constant Current Charging



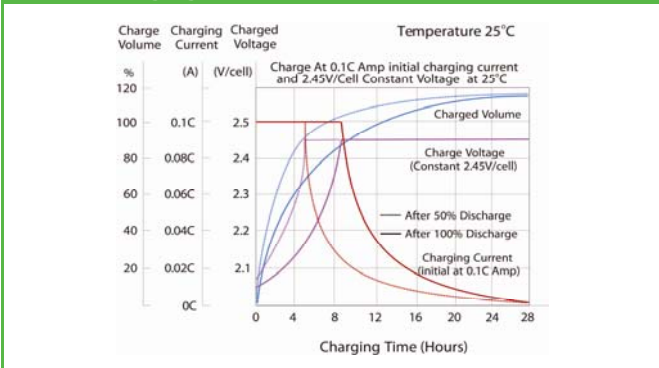
Quick Charge / Float Charge



Charge Time vs The Depth of Discharge



Float Charging Characteristics



Cycle Life vs Depth of Discharge

