

**UP-PLH700-12FT**



Specification		
Nominal Voltage	12V	
Nominal Capacity (10HR)	190.0AH	
Dimension	Length	562±3mm (22.1 inches)
	Width	125±2mm (4.92 inches)
	Container Height	320±2mm (12.60 inches)
	Total Height (with Terminal)	320±2mm (12.60 inches)
Approx Weight	Approx 60Kg (132.3 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	190.0AH/19.0A (10hr, 1.80V/cell, 25°C/77°F)	
Power (Watts)	700Watts/cell (15min, 1.67V/cell, 25°C/77°F)	
Max. Discharge Current	1500A (5s)	
Internal Resistance	Approx 3.0mΩ	
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.	



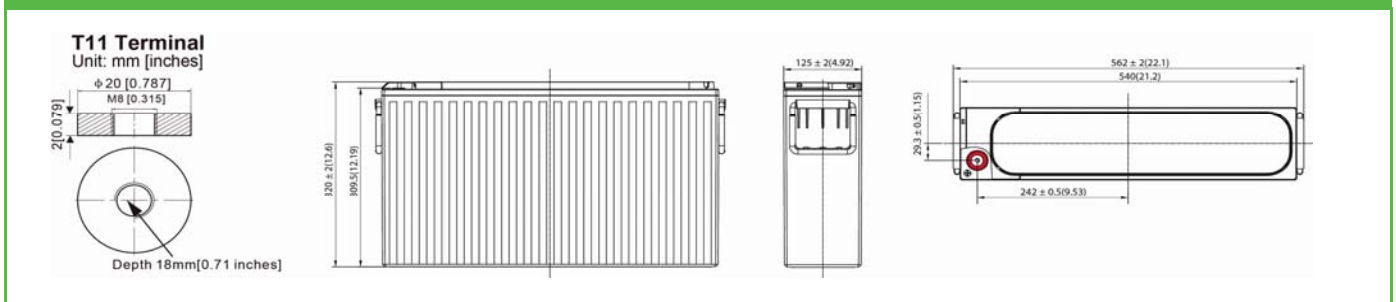
**Constant Current Discharge (Amperes) at 25°C (77°F)**

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	456.0	329.2	283.7	241.0	183.7	139.1	112.2	64.66	46.51	36.64	30.35	21.30	18.40	9.58
1.80V/cell	521.2	373.8	317.7	263.2	197.8	147.4	117.3	66.97	48.12	37.81	31.30	21.99	19.00	9.88
1.75V/cell	561.5	404.2	341.1	278.2	206.1	152.7	121.1	68.48	49.12	38.59	31.92	22.44	19.29	10.05
1.70V/cell	601.8	433.6	362.5	294.1	216.3	159.0	124.8	70.21	50.10	39.24	32.57	22.85	19.49	10.17
1.67V/cell	640.4	453.8	382.7	306.1	221.9	162.0	127.8	71.55	50.96	39.90	33.10	23.18	19.63	10.25
1.60V/cell	710.8	480.3	397.5	316.9	228.3	166.3	131.0	72.95	51.76	40.71	33.78	23.46	19.82	10.35

**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	856.8	624.6	542.8	463.7	357.7	274.8	222.5	129.2	93.30	73.71	61.23	43.18	37.41	19.56
1.80V/cell	962.1	697.6	599.8	501.5	382.5	289.6	231.3	133.2	96.17	75.82	62.92	44.42	38.49	20.10
1.75V/cell	1021.3	746.9	637.8	525.6	395.3	297.9	237.4	135.5	97.68	77.06	63.94	45.18	38.96	20.40
1.70V/cell	1079.0	789.2	669.6	550.2	411.5	308.3	243.4	138.2	99.19	78.09	65.05	45.89	39.27	20.56
1.67V/cell	1132.2	817.7	700.0	568.2	420.3	312.7	248.1	140.4	100.54	79.16	65.92	46.46	39.43	20.67
1.60V/cell	1220.4	842.4	711.6	578.4	427.1	317.6	252.0	142.0	101.37	80.36	66.93	46.83	39.69	20.80

**Dimensions**

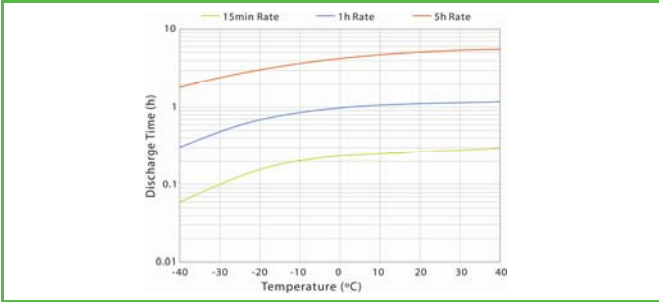


Polígono industrial La Dehesa  
C/ Dehesa Vieja, nº2 Nave 16  
28052 Madrid (Spain)  
Tel. (+34) 918 021 649  
Fax. (+34) 917 750 542  
info@masterbattery.es

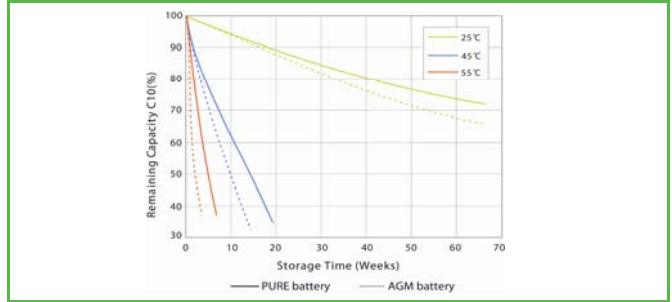


**UP-PLH700-12FT**

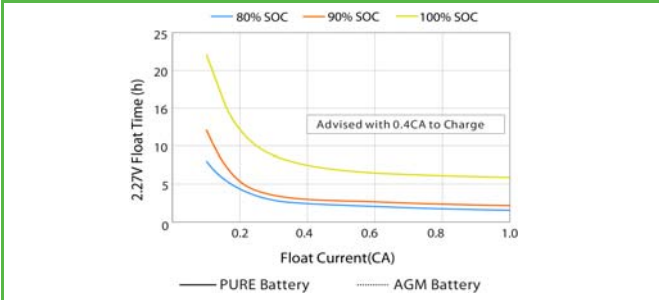
**Effect of Temperature on Discharge Time**



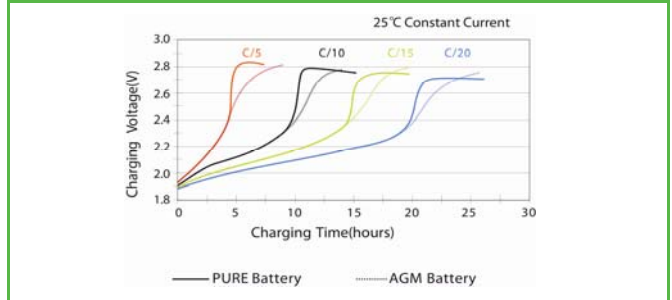
**Self Discharge Characteristics**



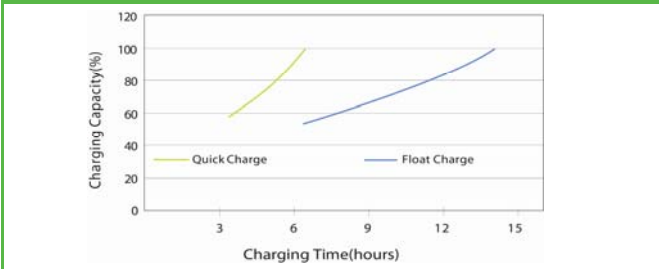
**Float Current vs Float Time**



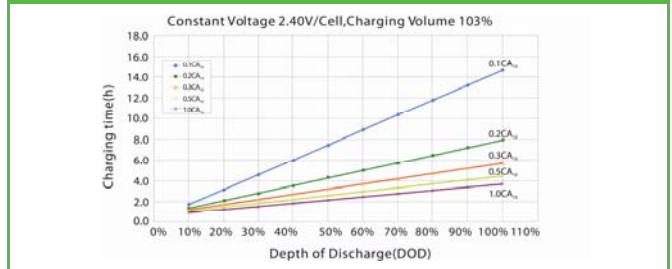
**Voltage Profiles @25°C Constant Current Charging**



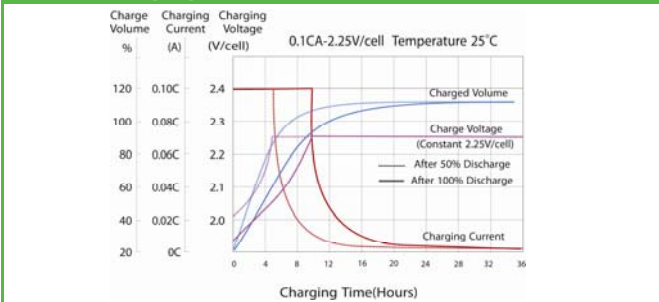
**Quick Charge / Float Charge**



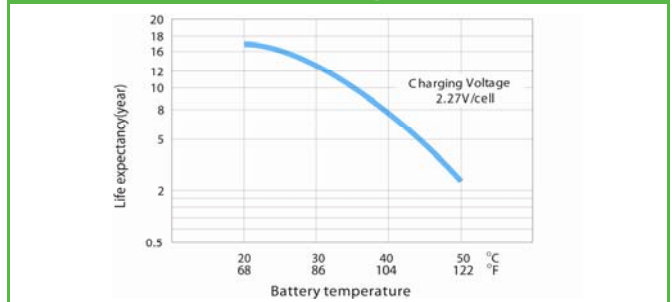
**Charge Time vs The Depth of Discharge**



**Float Charging Characteristics**



**Effect of Temperature on Long Term Float Life**



**Charge Voltage Compensation**

