

UP180-12



Specification		
Nominal Voltage	12V	
Nominal Capacity (10HR)	180.0AH	
Dimension	Length	530±3mm (20.87 inches)
	Width	209±3mm (8.23 inches)
	Container Height	214±3mm (8.42 inches)
	Total Height (with Terminal)	220±3mm (8.66 inches)
	Approx Weight	Approx 52.8 kg (116.4lbs)
Terminal	T11	
Container Material	ABS	
Rated Capacity	187.2 AH/9.36A	(20hr, 1.80V/cell, 25°C/77°F)
	180.0 AH/18.0A	(10hr, 1.80V/cell, 25°C/77°F)
	155 AH/31.0A	(5hr, 1.75V/cell, 25°C/77°F)
	140.4 AH/46.8A	(3hr, 1.75V/cell, 25°C/77°F)
	109.8 AH/109.8A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1800A (5s)	
Internal Resistance	Approx 3.0mΩ	
Operating Temperature Range	Discharge:	-15~50°C (5~122°F)
	Change :	0~40°C (32~104°F)
	Storage :	-15~40°C (5~104°F)
Nominal Operating Temperature Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 54.0A.Voltage. 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage. 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Batteries may be stored for up to 6 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	6h	8h	10h	20h
1.85V/cell	242.2	206.0	172.3	136.9	103.6	84.9	54.1	42.7	34.9	28.1	24.5	19.9	17.0	9.27
1.80V/cell	309.5	248.9	203.7	161.6	120.5	95.1	59.0	46.0	37.3	30.2	26.3	21.1	18.0	9.36
1.75V/cell	340.1	271.8	219.1	167.7	125.1	99.5	61.2	46.8	38.1	31.0	27.0	21.5	18.2	9.45
1.70V/cell	370.6	290.2	230.2	174.6	130.1	102.6	63.6	48.2	39.1	31.8	27.6	21.8	18.4	9.63
1.65V/cell	400.0	308.6	244.6	184.2	133.3	106.0	65.4	50.2	40.5	32.7	28.2	22.1	18.7	9.76
1.60V/cell	434.3	330.0	260.6	194.4	139.0	109.8	67.6	51.7	41.7	33.8	28.8	22.3	18.9	9.81

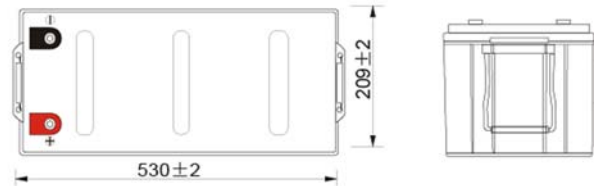
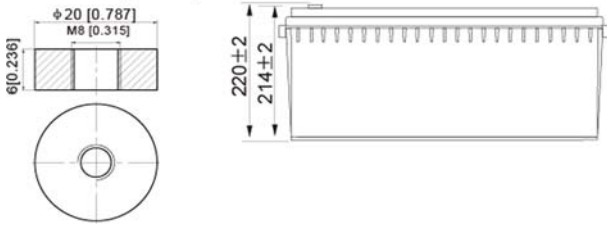
Constant Power Discharge (Watts) at 25°C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	447.4	384.3	324.7	261.0	199.2	163.7	105.0	83.3	68.2	55.2	48.2	39.3	33.6	18.4
1.80V/cell	564.9	458.1	378.2	303.2	229.9	182.4	113.8	89.1	72.5	59.0	51.5	41.5	35.6	18.5
1.75V/cell	610.8	494.3	403.0	312.2	236.3	189.9	117.6	90.4	73.8	60.3	52.7	42.1	35.9	18.7
1.70V/cell	650.7	520.4	420.3	323.2	244.8	195.3	122.0	92.8	75.7	61.7	53.7	42.7	36.2	19.0
1.65V/cell	695.8	549.0	443.2	338.1	248.7	200.4	124.7	96.3	78.0	63.2	54.7	43.3	36.9	19.2
1.60V/cell	738.1	577.5	467.0	354.5	257.8	206.4	128.2	98.8	80.2	65.1	55.8	43.6	37.2	19.3



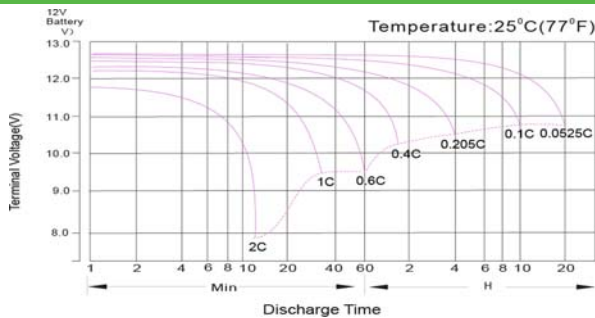
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Dimensions

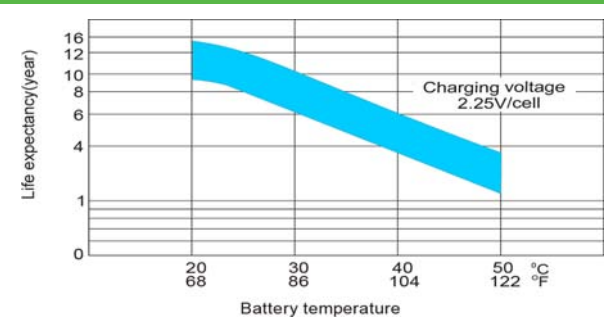
T1 1 Terminal
Unit: mm [inches]



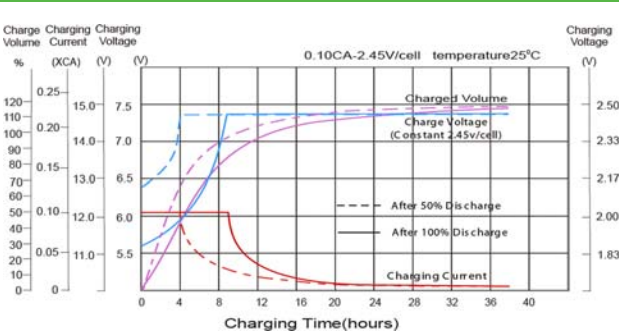
Discharge Characteristics



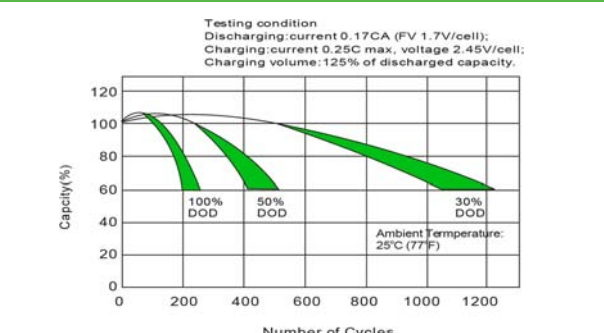
Effect of Temperature on Long Term Float Life



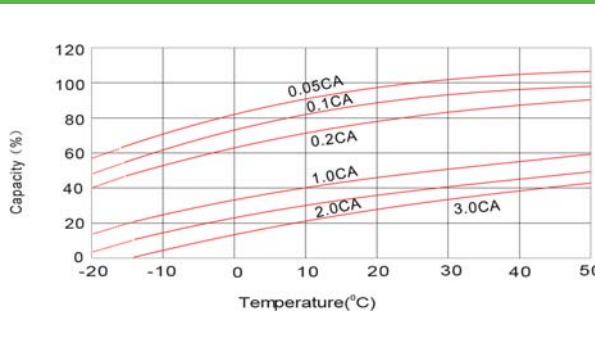
Charging Characteristics (cycle use)



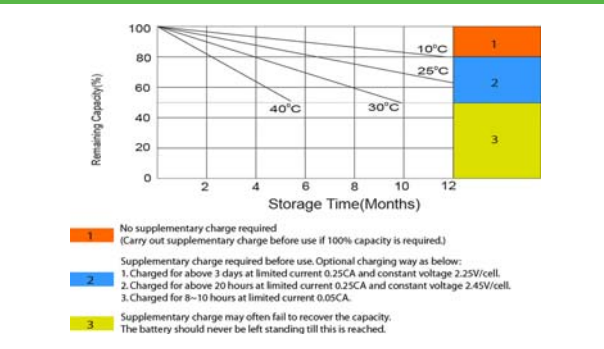
Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



Poligono 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

