

UP-HR6.0-12



Specification		
Nominal Voltage	12V	
Watts(15min Rate)	22.3 W at 1.67V/cell	
Dimension	Length	151±1mm (5.95 inches)
	Width	65±1mm (2.56 inches)
	Container Height	94.5±1mm (3.72 inches)
	Total Height (with Terminal)	100±1mm (3.94 inches)
Approx Weight	Approx 2.18 kg (4.81lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	6.20 AH/0.62A	(10hr, 1.80V/cell, 25°C/77°F)
	6.00 AH/0.75A	(8hr, 1.80V/cell, 25°C/77°F)
	5.40 AH/1.08A	(5hr, 1.75V/cell, 25°C/77°F)
	4.92 AH/1.64A	(3hr, 1.75V/cell, 25°C/77°F)
	4.54 AH/4.54A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	90A (5s)	
Internal Resistance	Approx 20mΩ	
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 1.8A.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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.3	11.6	9.20	7.92	6.27	4.72	3.72	2.06	1.46	1.16	1.00	0.854	0.706	0.585	0.326
1.80V/cell	20.5	12.9	10.1	8.51	6.72	5.01	3.93	2.21	1.58	1.25	1.04	0.902	0.750	0.620	0.328
1.75V/cell	23.1	14.3	11.1	9.16	6.97	5.19	4.11	2.29	1.64	1.29	1.08	0.922	0.762	0.626	0.331
1.70V/cell	25.4	15.5	11.8	9.62	7.27	5.40	4.25	2.38	1.69	1.32	1.11	0.941	0.773	0.632	0.338
1.65V/cell	28.0	16.7	12.5	10.2	7.66	5.54	4.38	2.44	1.73	1.36	1.13	0.970	0.785	0.645	0.342
1.60V/cell	30.9	17.8	13.2	10.9	8.09	5.77	4.54	2.53	1.78	1.40	1.16	0.989	0.793	0.652	0.344

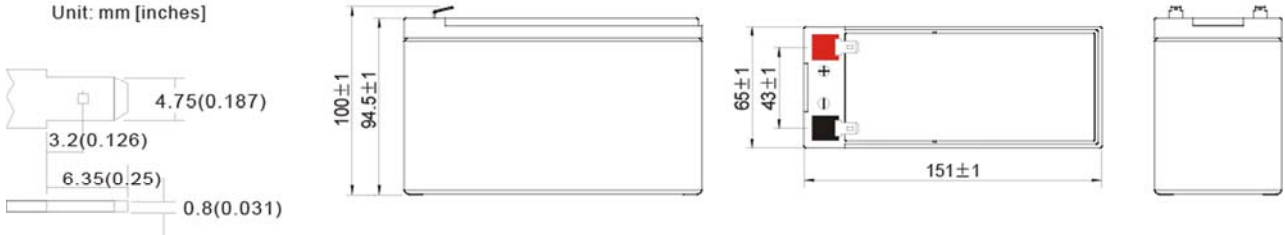
Constant Power Discharge (Watts) at 25°C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	33.5	21.5	17.2	14.9	11.9	9.09	7.18	4.01	2.87	2.31	2.00	1.72	1.39	1.15	0.648
1.80V/cell	37.1	23.6	18.6	15.8	12.6	9.54	7.55	4.26	3.07	2.45	2.06	1.79	1.46	1.22	0.652
1.75V/cell	40.9	25.5	20.1	16.9	13.0	9.80	7.86	4.40	3.18	2.52	2.13	1.84	1.48	1.23	0.658
1.70V/cell	43.8	27.2	21.1	17.6	13.5	10.2	8.08	4.57	3.26	2.58	2.18	1.87	1.50	1.24	0.669
1.65V/cell	47.6	29.1	22.3	18.5	14.1	10.3	8.29	4.67	3.32	2.64	2.22	1.91	1.52	1.27	0.678
1.60V/cell	51.3	30.3	23.0	19.5	14.7	10.7	8.55	4.80	3.40	2.71	2.27	1.95	1.53	1.28	0.680



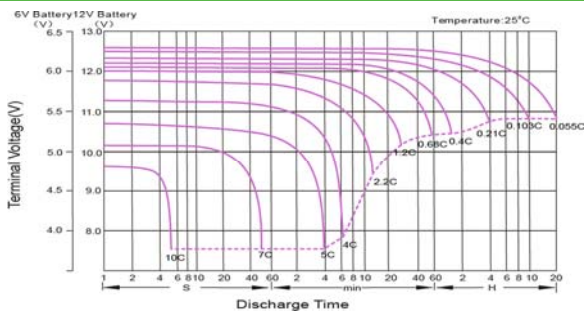
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Dimensions

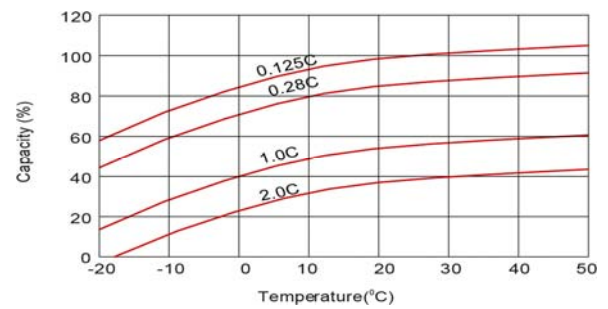
T1 Terminal
Unit: mm [inches]



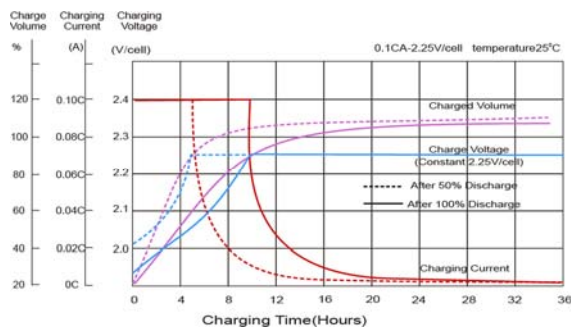
Discharge Characteristics



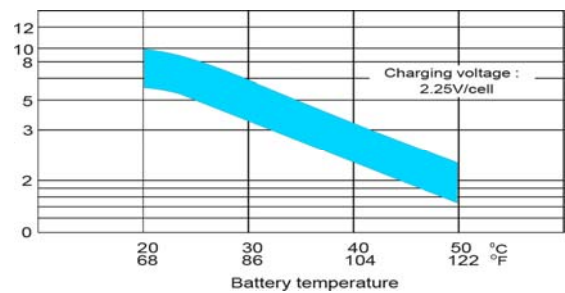
Temperature Effects in Relation to Battery Capacity



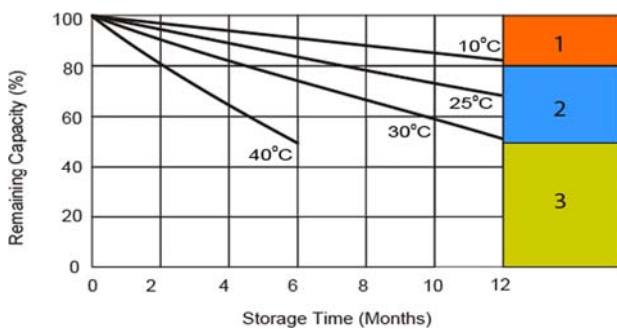
Float Charging Characteristics



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



- 1** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required).
- 2** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant volatge 2.45V/cell.
 3. Charged for 8~10 hours at limited current 0.05CA .
- 3** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

