

UP-HR2.2-12



Specification		
Nominal Voltage	12V	
Watts(15min Rate)	7.89 Watta at 1.67V/cell	
Dimension	Length	178±1mm (7.00 inches)
	Width	35±1mm (1.38 inches)
	Container Height	60±1mm (2.36 inches)
	Total Height (with Terminal)	66±1mm (2.60 inches)
Approx Weight	Approx 1.0 kg (2.21lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity	2.28 AH/0.228A	(10hr , 1.80V/cell, 25°C/77°F)
	2.20 AH/0.275A	(8hr, 1.80V/cell, 25°C/77°F)
	1.92 AH/0.385A	(5hr, 1.75V/cell, 25°C/77°F)
	1.73 AH/0.577A	(3hr, 1.75V/cell, 25°C/77°F)
	1.72 AH/1.72A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	33A (5s)	
Internal Resistance	Approx 70mΩ	
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 0.66A.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.	

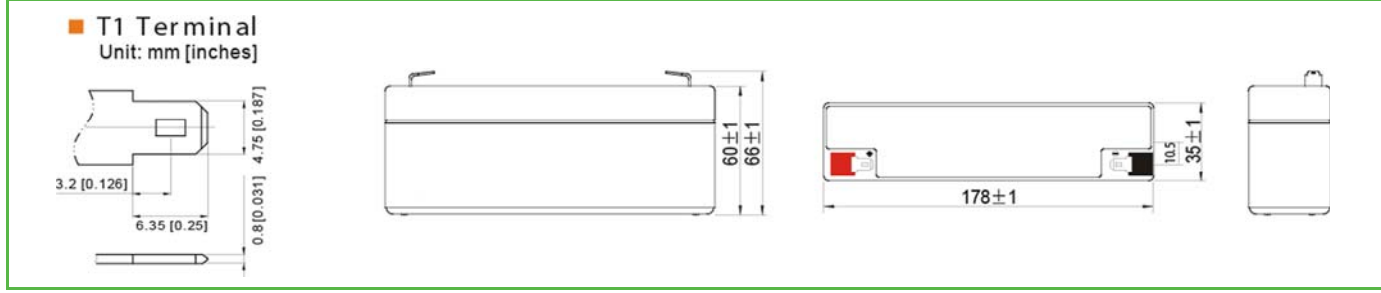
Constant Current Discharge (Amperes) at 25°C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	6.55	4.26	3.15	2.95	2.29	1.81	1.41	0.757	0.527	0.415	0.355	0.306	0.259	0.219	0.120
1.80V/cell	7.03	4.56	3.46	3.17	2.45	1.88	1.48	0.787	0.567	0.444	0.370	0.327	0.275	0.228	0.121
1.75V/cell	7.93	5.01	3.78	3.41	2.55	1.95	1.55	0.816	0.577	0.454	0.385	0.337	0.280	0.230	0.122
1.70V/cell	8.74	5.46	4.04	3.59	2.66	2.03	1.60	0.848	0.594	0.466	0.394	0.343	0.284	0.232	0.124
1.65V/cell	9.64	5.89	4.30	3.81	2.80	2.09	1.66	0.872	0.619	0.482	0.403	0.351	0.288	0.237	0.126
1.60V/cell	10.7	6.28	4.51	4.06	2.96	2.17	1.72	0.901	0.638	0.497	0.413	0.359	0.291	0.239	0.126

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	11.9	7.88	5.89	5.57	4.37	3.48	2.72	1.47	1.03	0.821	0.705	0.611	0.506	0.433	0.238
1.80V/cell	12.6	8.30	6.38	5.90	4.61	3.57	2.85	1.51	1.11	0.872	0.732	0.653	0.537	0.449	0.240
1.75V/cell	14.0	8.97	6.89	6.29	4.74	3.69	2.97	1.57	1.12	0.888	0.760	0.668	0.545	0.453	0.242
1.70V/cell	15.0	9.61	7.25	6.56	4.92	3.82	3.06	1.63	1.15	0.910	0.776	0.681	0.552	0.458	0.246
1.65V/cell	16.4	10.3	7.65	6.92	5.14	3.88	3.13	1.66	1.19	0.938	0.790	0.695	0.560	0.467	0.249
1.60V/cell	17.7	10.8	7.90	7.28	5.39	4.03	3.23	1.71	1.22	0.964	0.809	0.707	0.564	0.470	0.250

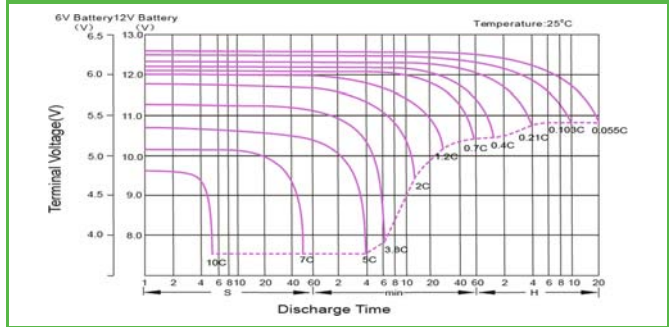


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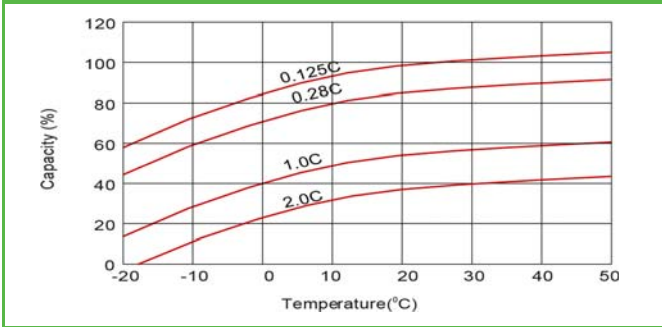
Dimensions



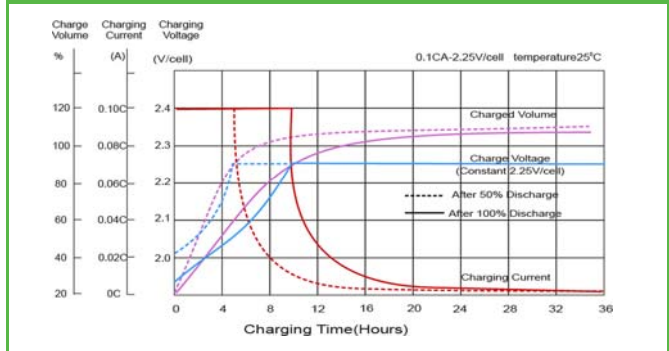
Discharge Characteristics



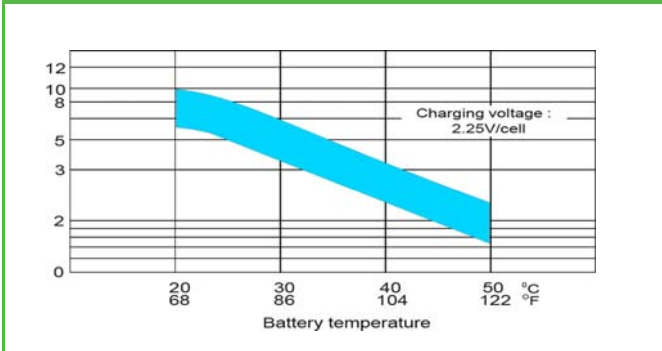
Temperature Effects in Relation to Battery Capacity



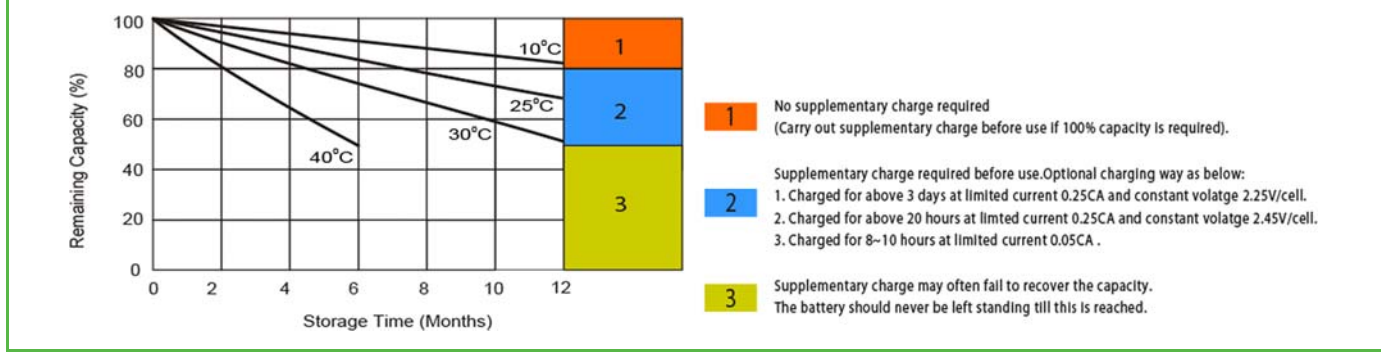
Float Charging Characteristics



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



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