

UP-HR6.5-12



Specification		
Nominal Voltage	12V	
Watts(15min Rate)	25.3 W at 1.67V/cell	
Dimension	Length	151±1mm (5.95 inches)
	Width	53±1mm (2.09 inches)
	Container Height	93±1mm (3.66 inches)
	Total Height (with Terminal)	99±1mm (3.90 inches)
Approx Weight	Approx 2.1 kg (4.63lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	6.69 AH/0.669A	(10hr, 1.80V/cell, 25°C/77°F)
	6.50 AH/0.813A	(8hr, 1.80V/cell, 25°C/77°F)
	5.65 AH/1.13A	(5hr, 1.75V/cell, 25°C/77°F)
	4.95 AH/1.65A	(3hr, 1.75V/cell, 25°C/77°F)
	4.52 AH/4.52A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	97.5A (5s)	
Internal Resistance	Approx 35mΩ	
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 1.95A. 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.	

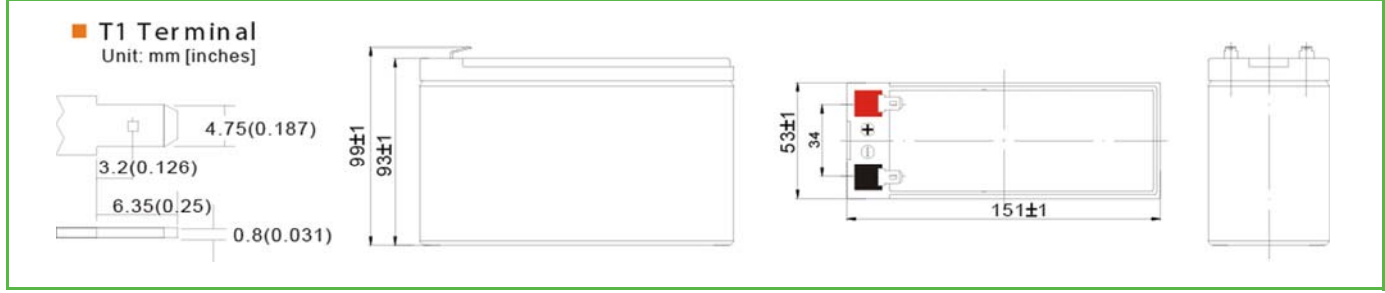
Constant Current Discharge (Amperes) at 25°C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.9	13.5	10.5	8.55	6.57	4.71	3.67	2.14	1.58	1.25	1.07	0.902	0.765	0.632	0.356
1.80V/cell	21.1	15.0	11.4	9.19	7.04	5.07	3.91	2.23	1.62	1.30	1.10	0.970	0.813	0.669	0.359
1.75V/cell	23.9	16.5	12.5	9.89	7.31	5.27	4.09	2.32	1.65	1.33	1.13	0.989	0.826	0.676	0.362
1.70V/cell	26.3	18.0	13.4	10.4	7.61	5.48	4.22	2.41	1.70	1.36	1.15	1.019	0.837	0.683	0.369
1.65V/cell	28.9	19.4	14.3	11.1	8.03	5.62	4.37	2.47	1.78	1.41	1.18	1.038	0.850	0.697	0.374
1.60V/cell	31.9	20.7	14.9	11.7	8.48	5.86	4.52	2.56	1.82	1.46	1.22	1.057	0.859	0.704	0.376

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	34.5	25.0	19.5	16.1	12.5	9.06	7.07	4.17	3.10	2.47	2.12	1.80	1.49	1.25	0.707
1.80V/cell	38.2	27.5	21.1	17.1	13.2	9.70	7.50	4.31	3.16	2.55	2.16	1.93	1.58	1.32	0.713
1.75V/cell	42.2	29.7	22.8	18.1	13.6	9.99	7.81	4.45	3.21	2.60	2.22	1.98	1.61	1.33	0.718
1.70V/cell	45.2	31.6	24.1	18.9	14.1	10.3	8.03	4.62	3.29	2.66	2.27	2.01	1.63	1.35	0.731
1.65V/cell	49.1	33.9	25.3	20.0	14.7	10.5	8.25	4.71	3.41	2.75	2.34	2.05	1.65	1.37	0.740
1.60V/cell	53.0	35.2	26.2	21.0	15.4	10.9	8.50	4.85	3.50	2.82	2.39	2.09	1.66	1.39	0.743

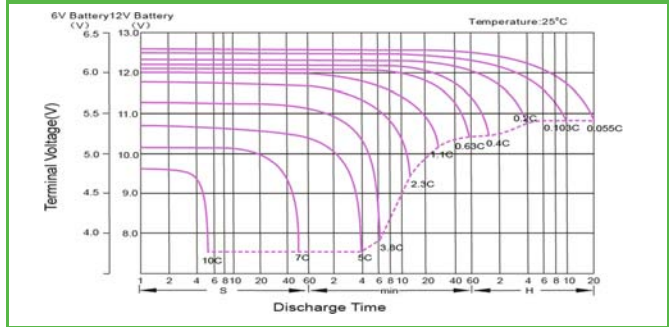


UP-HR6.5-12

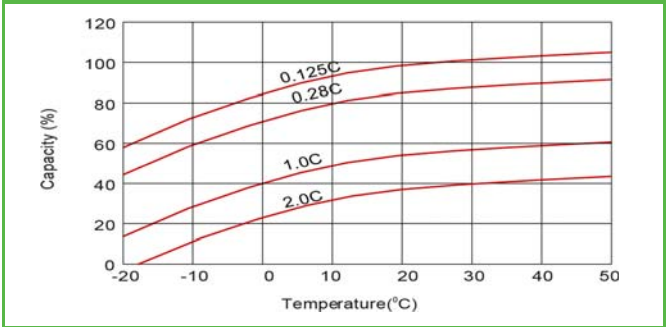
Dimensions



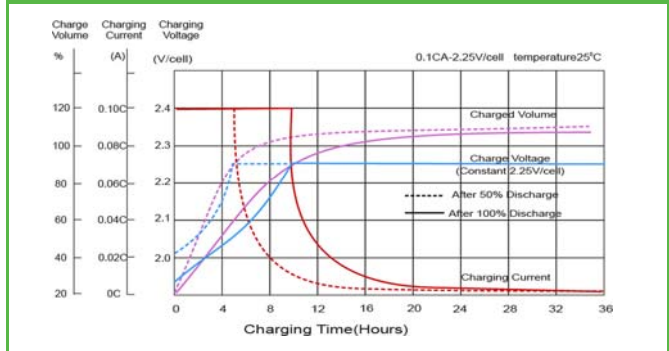
Discharge Characteristics



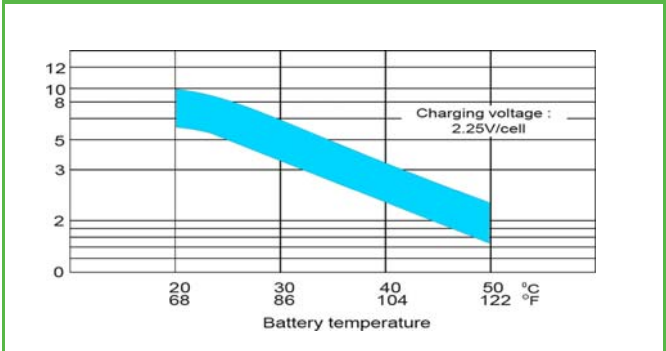
Temperature Effects in Relation to Battery Capacity



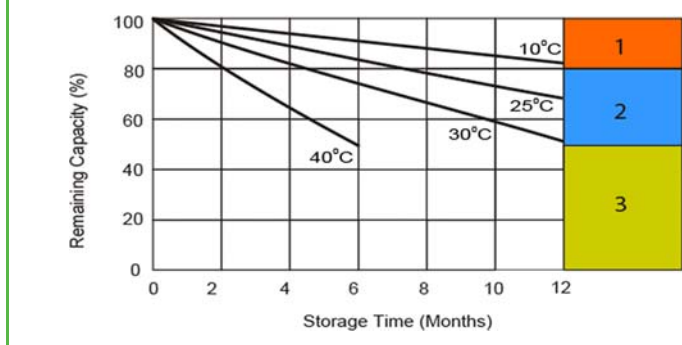
Float Charging Characteristics



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 voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 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.

