

## UP-HR17-12



Specification		
Nominal Voltage	12V	
Watts(15min Rate)	76.3 Watte at 1.67V/cell	
Dimension	Length	181.5±1mm (7.14 inches)
	Width	77±1mm (3.03 inches)
	Container Height	167.5±1mm (6.59 inches)
	Total Height (with Terminal)	167.5±1mm (6.59 inches)
Approx Weight	Approx 5.78 kg (12.74lbs)	
Terminal	T3 / T12	
Container Material	ABS	
Rated Capacity	17.6AH/1.76A	(10hr , 1.80V/cell, 25°C/77°F)
	17.0 AH/2.13A	(8hr, 1.80V/cell, 25°C/77°F)
	15.7AH/3.15A	(5hr, 1.75V/cell, 25°C/77°F)
	14.5 AH/4.84A	(3hr, 1.75V/cell, 25°C/77°F)
	14.2 AH/14.2A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	255A (5s)	
Internal Resistance	Approx 16mΩ	
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 5.1A.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.	

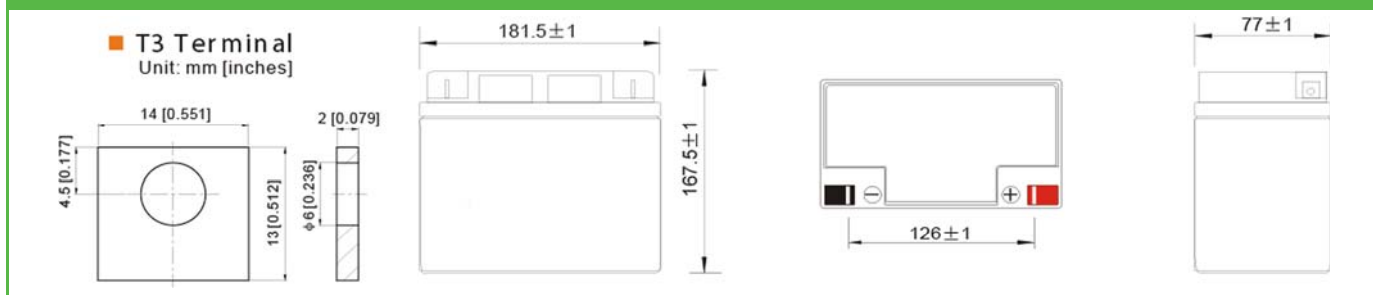
Constant Current Discharge (Amperes) at 25°C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	53.9	38.8	31.5	26.1	19.9	14.7	11.5	6.3	4.41	3.45	2.91	2.47	2.00	1.65	0.94
1.80V/cell	63.0	43.8	34.6	28.1	21.4	16.1	12.3	6.8	4.75	3.68	3.06	2.63	2.13	1.76	0.95
1.75V/cell	71.0	48.2	37.8	30.1	22.3	16.6	12.9	7.0	4.84	3.76	3.15	2.73	2.18	1.78	0.95
1.70V/cell	78.3	52.6	40.3	31.7	23.1	17.3	13.2	7.3	5.02	3.90	3.23	2.79	2.21	1.79	0.97
1.65V/cell	86.3	56.8	42.9	33.7	24.5	17.8	13.7	7.5	5.19	4.00	3.30	2.85	2.25	1.83	0.98
1.60V/cell	95.3	60.4	45.0	35.9	25.8	18.5	14.2	7.7	5.34	4.12	3.39	2.91	2.27	1.84	0.99

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	98.6	71.6	58.7	49.1	38.1	28.3	22.2	12.3	8.64	6.81	5.78	4.96	4.03	3.37	1.93
1.80V/cell	113.9	80.1	63.6	52.0	40.2	30.5	23.6	13.0	9.25	7.23	6.06	5.23	4.27	3.57	1.95
1.75V/cell	125.8	86.6	68.7	55.4	41.5	31.5	24.5	13.5	9.38	7.37	6.23	5.43	4.37	3.60	1.96
1.70V/cell	134.8	92.3	72.3	57.9	42.9	32.6	25.3	14.0	9.73	7.62	6.37	5.53	4.43	3.64	1.99
1.65V/cell	146.5	98.7	76.3	61.0	44.9	33.1	25.9	14.3	10.0	7.77	6.48	5.64	4.49	3.70	2.02
1.60V/cell	157.9	102.8	78.7	64.3	47.0	34.3	26.7	14.7	10.3	7.99	6.63	5.74	4.52	3.74	2.03

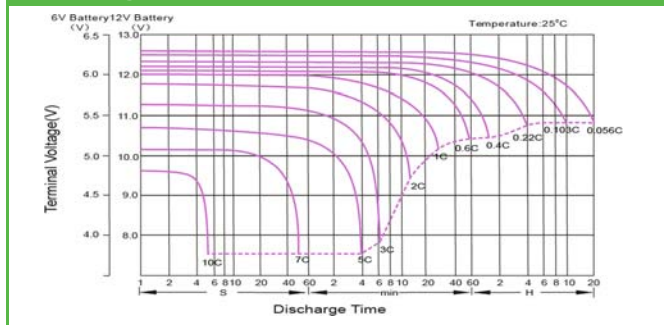


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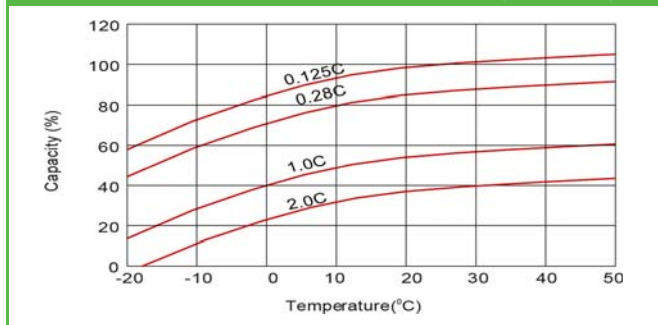
**Dimensions**



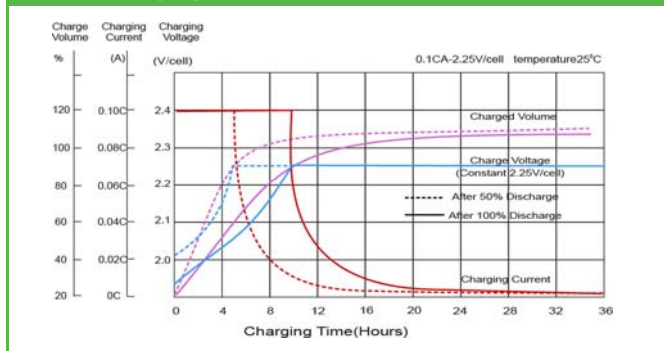
**Discharge Characteristics**



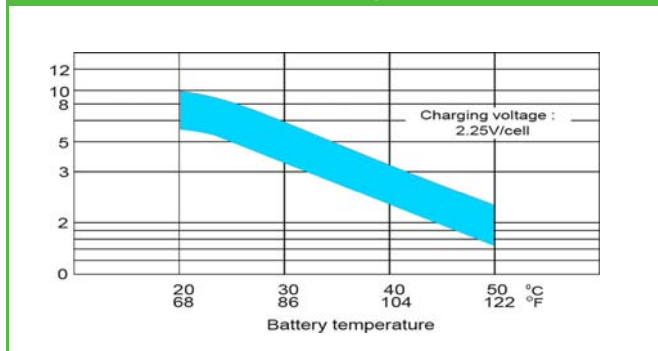
**Temperature Effects in Relation to Battery Capacity**



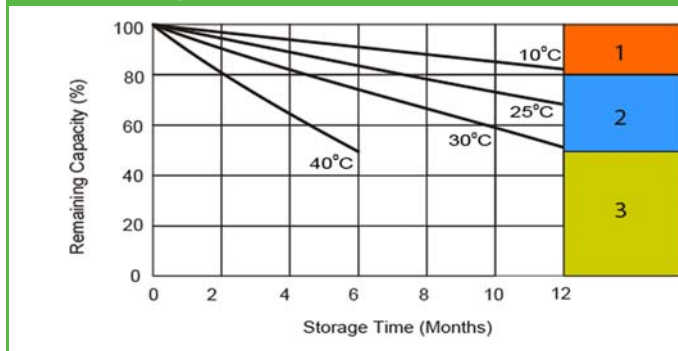
**Float Charging Characteristics**



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



**Self Discharge Characteristics**



- 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.

