



### Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	65.0AH	
Dimension	Length	348±3mm (13.70 inches)
	Width	167±2mm (6.57 inches)
	Container Height	178±2mm (7.01 inches)
	Total Height (with Terminal)	178±2mm (7.01 inches)
Approx Weight	Approx 18.5 kg (40.75 lbs)	
Terminal	T6 / T10	
Container Material	ABS	
Rated Capacity	67.6 AH/3.38A	(20hr, 1.80V/cell, 25°C/77°F)
	65.0 AH/6.50A	(10hr, 1.80V/cell, 25°C/77°F)
	56.0 AH/11.2A	(5hr, 1.75V/cell, 25°C/77°F)
	50.7 AH/16.9A	(3hr, 1.75V/cell, 25°C/77°F)
	39.7 AH/39.7A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	780A (5s)	
Internal Resistance	Approx 5.3mΩ	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 19.5 A. 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	batterys may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

### Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto controlsystem

ISO 9001	ISO 14001	OHSAS 18001	TLC
CE	RoHS	UL	PV Battery

### Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.80V/cell	145.37	104.12	71.99	39.00	16.44	11.62	6.39	3.45
1.75V/cell	150.63	106.22	73.39	40.54	17.00	11.88	6.50	3.49
1.70V/cell	159.78	110.42	74.44	40.70	17.17	12.07	6.63	3.58
1.65V/cell	163.00	113.23	75.14	40.90	17.43	12.29	6.80	3.70
1.60V/cell	169.43	116.73	72.69	41.19	17.85	12.71	7.08	3.84

### Constant Power Discharge (Watts) at 25 °C (77°F)

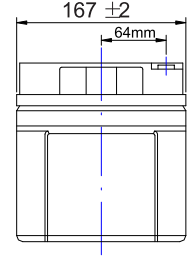
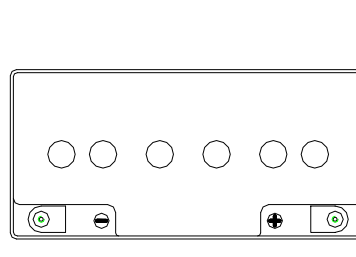
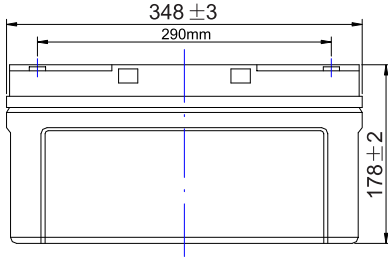
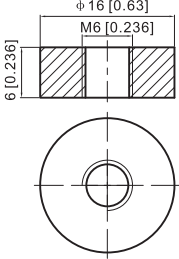
F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.80V/cell	263.27	192.42	133.62	72.66	30.83	22.04	12.55	6.79
1.75V/cell	275.05	198.11	137.90	76.30	32.14	22.74	12.87	6.95
1.70V/cell	295.27	207.71	141.07	77.70	32.93	23.39	13.30	7.18
1.65V/cell	303.34	215.47	143.97	74.73	33.75	24.05	13.79	7.54
1.60V/cell	317.69	223.54	140.44	80.23	34.86	25.04	14.53	7.93

**Note** The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

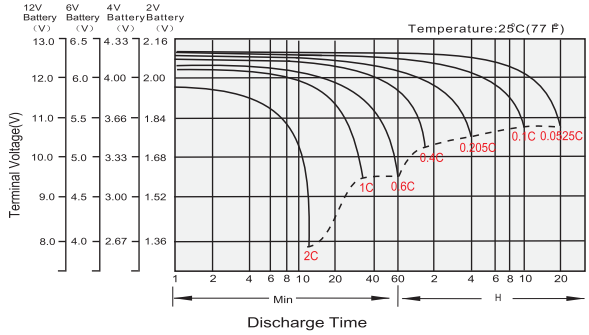
## Dimensions

### T6 Terminal

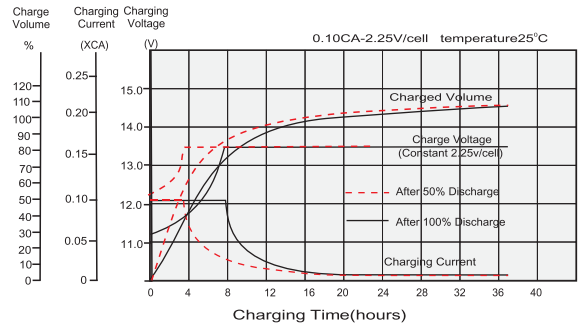
Unit: mm [inches]



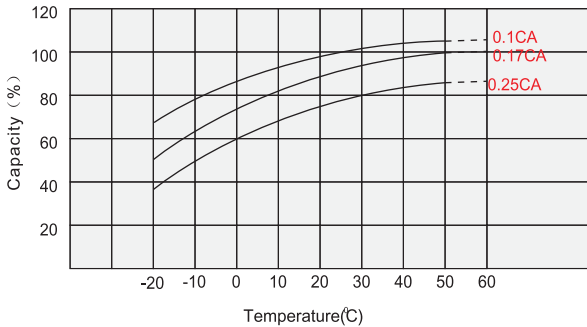
## Discharge Characteristics



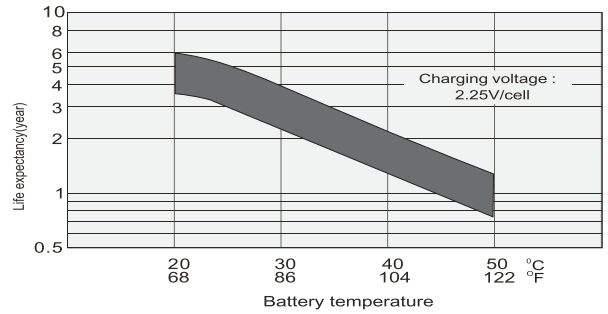
## Float Charging Characteristics



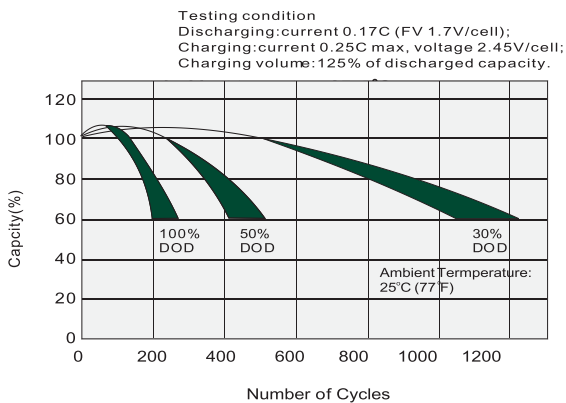
## Temperature Effects in Relation to Battery Capacity



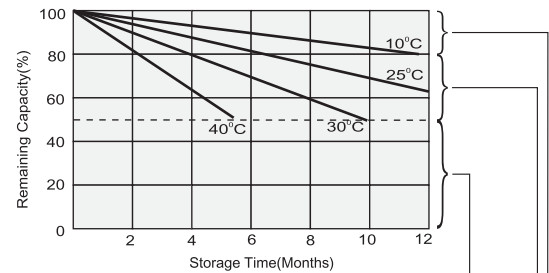
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



Supplementery charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

Supplementery charge required before use. Optimal charging way as below:  
 1. Charged for a above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
 2. Charged for a above 20 hours at a limited current 0.25CA and constant voltage 2.45V/cell.  
 3. Charged for 8-10 hours at limited current 0.05CA.

No supplementery charge required  
 (Carry out supplementery charge before use if 100% capacity is required.)