







# FT12-60

## Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	60.0AH	
Dimension	Length	277 ±2mm (10.91 inches)
	Width	106 ±1mm (4.17 inches)
	Container Height	222 ±2mm (8.74 inches)
	Total Height (with Terminal)	222 ±2mm (8.74 inches)
Approx Weight	Approx 16.5 Kg (37.87lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity	62.2 AH	(20hr , 1.80V/cell, 25°C/77°F)
	60.0 AH	(10hr, 1.80V/cell, 25°C/77°F)
	56.2 AH	(8hr, 1.80V/cell, 25°C/77°F)
	53.6 AH	(5hr, 1.75V/cell, 25°C/77°F)
	36.6 AH	(1hr, 1.65V/cell, 25°C/77°F)
Max. Discharge Current	600A (5s)	
Internal Resistance	Approx 6.0 mΩ	
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 18 A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	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	series batteries 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

- ◆ For standard 19 inches or 23 inches power cabinets
- ◆ Network connection equipment of communication system
- ◆ Power system of special network or local area network
- ◆ UPS, standby power supply
- ◆ Power station systems
- ◆ Railway and marine systems

ISO 9001	ISO 14001	OHSAS 18001	
	RoHS		

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	210.5	147.4	109.9	63.59	37.31	22.35	16.42	13.33	11.26	7.52	6.40	3.28
1.65V	202.9	143.0	107.0	62.19	36.62	22.03	16.20	13.17	11.13	7.44	6.33	3.25
1.70V	193.0	137.2	103.2	60.34	35.71	21.59	15.91	12.95	10.95	7.34	6.25	3.22
1.75V	180.3	129.8	98.28	57.93	34.50	21.02	15.52	12.65	10.72	7.21	6.15	3.17
1.80V	164.3	120.3	91.95	54.80	32.93	20.26	15.01	12.27	10.42	7.03	6.00	3.11
1.85V	144.6	108.3	83.94	50.80	30.91	19.28	14.35	11.76	10.02	6.80	5.81	3.03

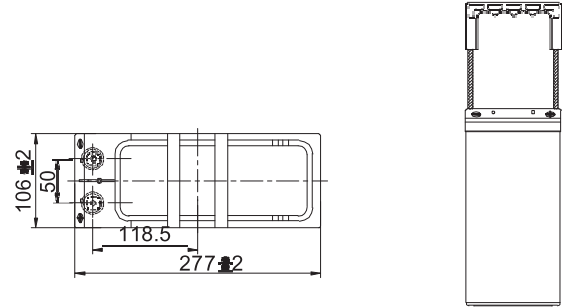
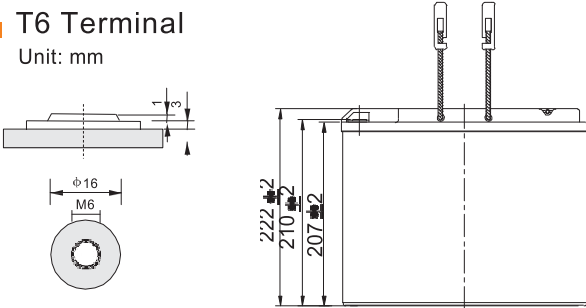
## Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	362.4	254.3	195.0	117.2	70.82	43.00	31.82	25.98	22.02	14.91	12.76	6.56
1.65V	358.5	253.2	193.9	116.4	70.24	42.68	31.59	25.79	21.88	14.80	12.67	6.52
1.70V	344.9	245.8	188.6	113.5	68.72	41.97	31.10	25.42	21.58	14.62	12.51	6.45
1.75V	328.0	236.6	182.2	110.1	66.74	41.04	30.48	24.94	21.20	14.38	12.31	6.36
1.80V	304.0	223.1	172.9	105.2	64.00	39.76	29.60	24.26	20.67	14.06	12.04	6.25
1.85V	272.3	204.5	160.1	98.51	60.50	38.04	28.42	23.35	19.95	13.62	11.68	6.09

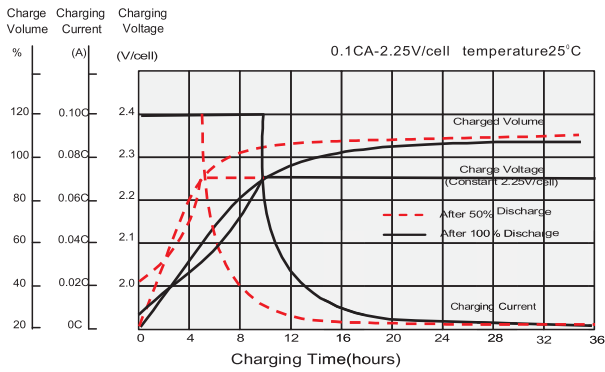
**Note** The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

## Dimensions

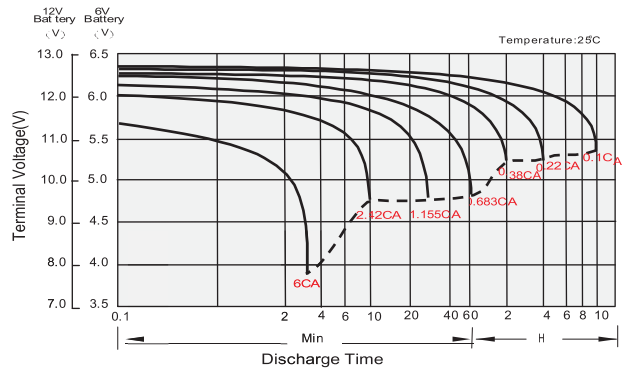
**T6 Terminal**  
Unit: mm



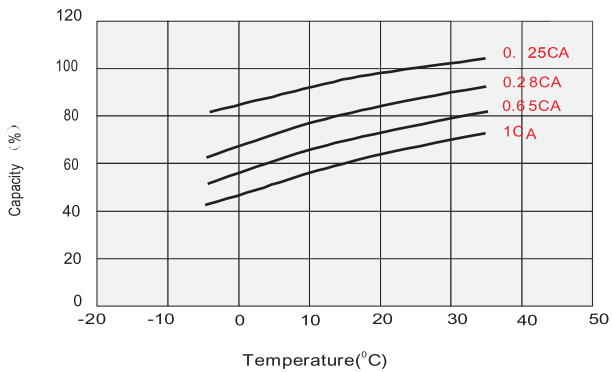
## Float Charging Characteristics



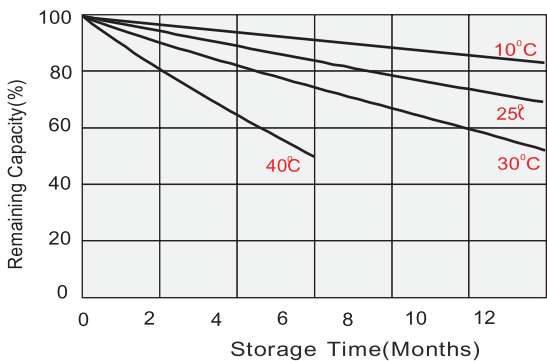
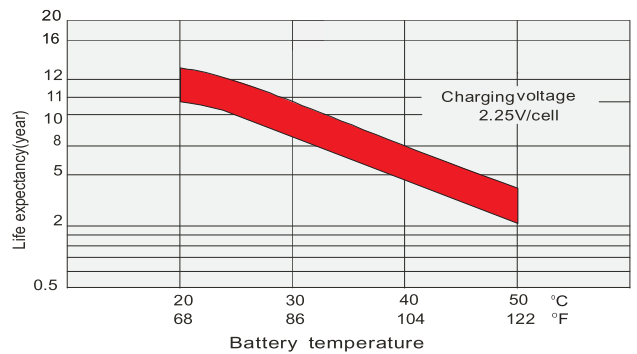
## Discharge Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



## Self Discharge Characteristics

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

- 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 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
  3. Charged for 8~10hours at limited current 0.05CA.

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