

# KT-BATT-12 BATTERY

The KT-BATT-12 Battery is primarily used to power a KT-Series Controller (KT-100/ KT-200/ KT-300 / KT-400).



Delivering power when you need it, this 12 Volt 12 AH battery uses a state-of-the-art, heavy-duty, calcium-alloy grid that provides exceptional performance and service life in both float and cyclic applications. It employs Absorbent Glass Mat (AGM) technology with a valve-regulated design, that can be used in enclosed and indoor environments. The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure buildup. Otherwise, the battery is completely sealed, making it maintenance-free, leak-proof, and usable in any position.

The KT-BATT-12 rechargeable, maintenance-free, spill-proof battery has a high discharge rate, wide operating temperatures, long service life, deep discharge recovery, and is resistant to shocks and vibration, providing a superior performance for KT Series Controllers - and a variety of other access control devices.

## Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	F2	Fiberglass	Sulfuric acid

## General Feature

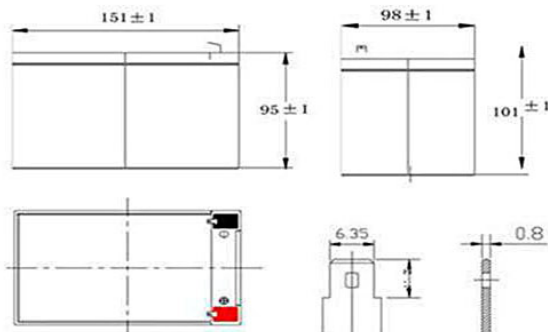
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Computer designed lead, calcium tin alloy grid for high power density. Long service life, float or cyclic applications. Maintenance-free operation.
- Low self discharge.

## Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (0.6A、 10.5V)	12Ah
	10 hour rate (1.14A、 10.5V)	11.4Ah
	5 hour rate (2.05A、 10.5V)	10.2Ah
	1 hour rate (7.5 A、 9.6V)	7.5Ah
Internal Resistance	Full charged Battery77°F(25°C):20mΩ	
Capacity affected by Temperature (20 hour rate)	104° F(40°C)	102%
	77° F(25°C)	100%
	32° F(10°C)	85%
	5° F(-15°C)	65%
Self-Discharge 68°F(20°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current77°F(25°C): 180A(5S)		
Charge (Constant Voltage)	Float: 13.6~13.8 V/77° F(25°C)	
	Cycle:14.5~14.9 V/77°F(25°C) Max. Current: 3.6A	

## SPECIFICATION

Nominal voltage ..... 12V  
 Number of cell ..... 6  
 Length(mm/inch) ..... 151/5.94  
 Width(mm/inch) ..... 98/3.86  
 Height(mm/inch) ..... 95/3.74  
 Total Height(mm/inch) ..... 101/3.98  
 Approx. Weight(kg/lbs) ..... 3.4/7.48



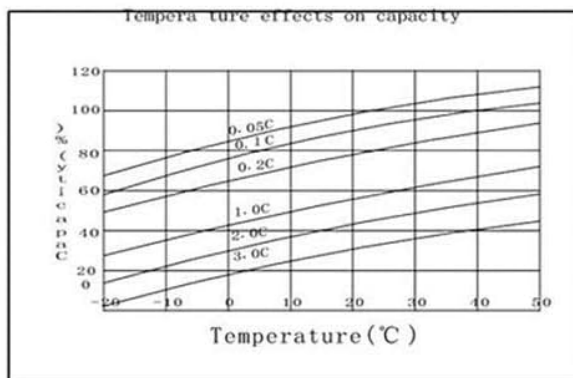
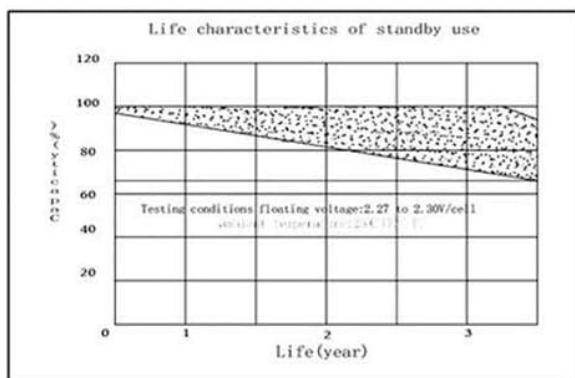
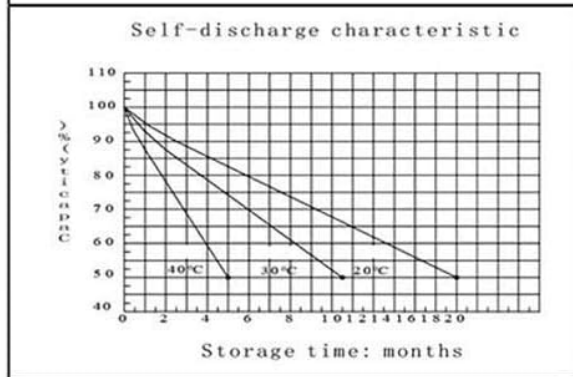
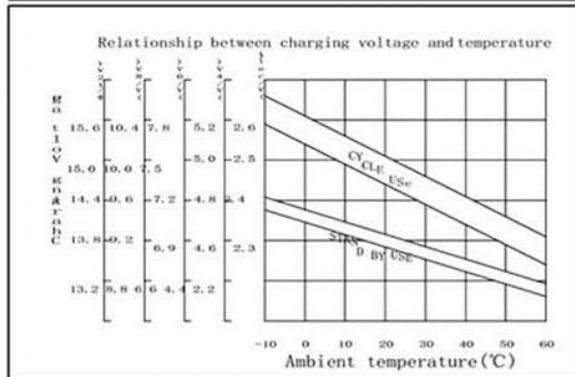
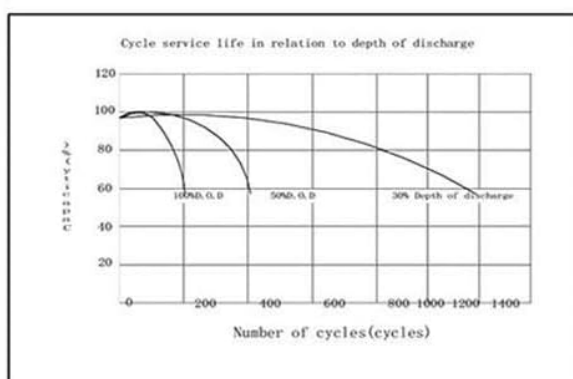
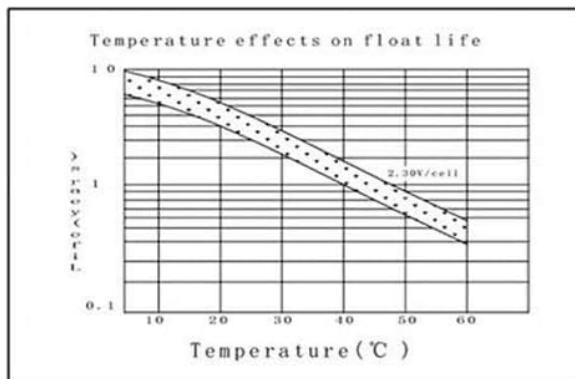
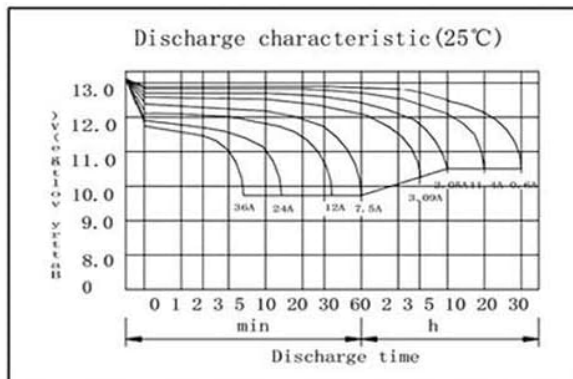
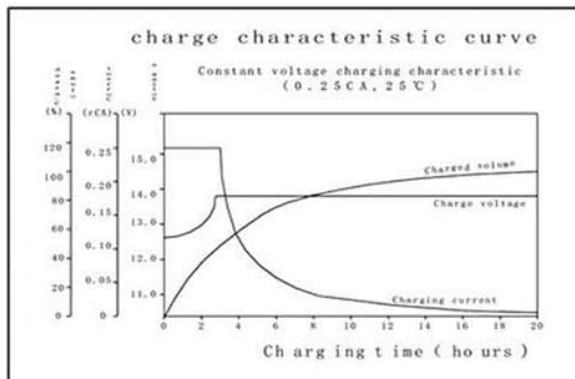
### Discharge Constant Current (Amperes at 77° F25 °c)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	45.6	31.0	24.3	13.3	7.50	3.15	2.12	1.18	0.61
1.65V	44.2	30.1	23.8	12.9	7.43	3.12	2.10	1.17	0.61
1.70V	42.7	29.2	23.2	12.6	7.37	3.09	2.07	1.16	0.61
1.75V	41.3	28.3	22.7	12.3	7.30	3.06	2.05	1.14	0.60
1.80V	39.8	27.5	22.1	12.0	7.23	3.03	2.02	1.12	0.59

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	88.0	59.2	47.7	28.2	21.0	15.6	9.78	6.52	4.24
1.65V	82.5	55.7	45.1	26.8	20.0	14.9	9.49	6.36	4.17
1.70V	77.1	52.3	42.5	25.3	19.0	14.2	9.17	6.19	4.09
1.75V	71.7	48.8	39.8	23.9	18.0	13.5	8.81	6.00	4.00
1.80V	66.4	45.4	37.2	22.4	17.0	12.8	8.43	5.80	3.90

## KT-BATT-12 BATTERY



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**3.98in**  
(10.11cm)  
Including Terminal



**3.74in**  
(9.5cm)  
Battery, Not Including Terminal

**5.94in**  
(15.08cm)

**3.86in**  
(9.8cm)

