

Conventional Series

GBT12-38(12V38Ah)

General-Purpose Lead-Acid Batteries

GBT series batteries are general-purpose lead-acid batteries. Adopting high quality lead-calcium multi-alloy plate grid, corrosion resistance, good mechanical properties; high-performance casting and welding plates, conductivity is 30% higher than ordinary batteries internal mechanical through-wall welding, internal resistance is reduced by 20%, more adaptable to high-current discharging; AGM technology, so that the battery has a higher energy density, charging acceptance is stronger; imports of ABS raw materials, homemade shell, the use of heat sealing process, so that the battery becomes an integrated whole, sealing is greatly improved; pure copper downward rotating terminals, not only to meet the needs of high-current charging and discharging, and flexible installation and maintenance. Pure copper downward rotating terminals not only meet the needs of high-current charging and discharging, but also flexible installation and more convenient maintenance. This series of batteries are manufactured by international advanced automatic production line, with high stability and consistency of batteries and longer service life. The product meets the standards of TLC, GB/T19638.1-2014, etc., and the design life is up to 12 years (25°C).

Applications

- * Uninterruptible Power Supply (UPS)
- * Data Center (IDC)
- * Government and Enterprise Unit (GEU) server rooms
- * Bank Backup Power
- * Fire Fighting Power Supply (EPS)
- * Telecommunications communication systems
- * Alarm and security systems
- * Solar wind energy systems
- * DC panel power supply
- * Power Systems

Material Composition

- * Safety Exhaust Valve EPDM
- * Positive plate lead dioxide
- * Negative plate sponge lead
- * electrolytes sulfuric acid
- * Partitions fiberglass wool
- * Terminals copper
- * Housing ABS material flame retardant UL94-HB

UL94-V0

Product Advantage

- * Low self-discharge
- * Highly airtight
- * Consistency
- * maintenance-free without the need to add water
- * with a design life of up to 12 years
- * High safety performance, explosion-proof and flame retardant
- * Low internal resistance and excellent conductivity
- * excellent high rate discharge performance

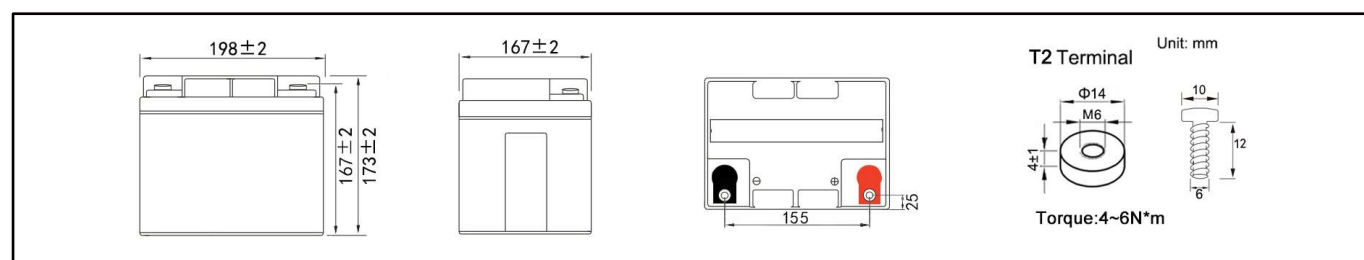
Specification

Breakdown

Battery type	Rated voltage		12V	
	Nominal Capacity (20HR)		38Ah	
	Battery type		GBT12-38	
Battery size	Long	Wide	High	Overall height (including terminals)
	198mm (7.8 inches)	167mm (6.57 inches)	173mm (6.81 inches)	173mm (6.81 inches)
Approximate weight	11.20kg(24.69lbs) ± 3%			
Capacity	20 hour rate (10.5V)	10 hour rate (10.8V)	5-hour rate (10.5V)	1 hour rate (9.6V)
	38Ah	34.0Ah	30.25Ah	20.40Ah
Maximum discharge current	456A (5 sec.)			
Battery internal resistance	Approx. 9.45mΩ at full power (25°C)			
capacity under the influence of temperature	40°C (104 °F)	25°C (77 °F)	0°C (32 °F)	-15°C (5 °F)
	102%	100%	85%	65%
Self-discharge @25°C (77 °F)	stored for one month		three months of storage	Storage for twelve months
	98%		94%	74%
charging method @25°C (77 °F)	Recycling		Float-charged use	
	14.40-15.00V (initial charge current less than 11.4A)		13.50-13.80V	

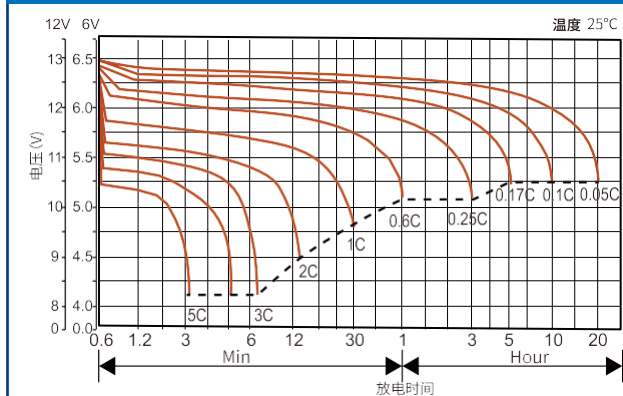
Dimensional data (mm)

Terminal Type (mm)

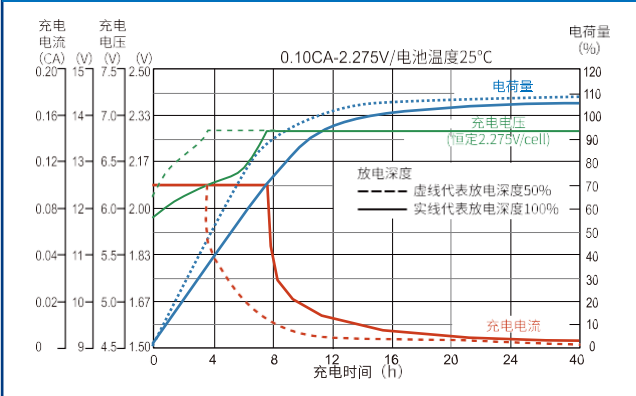


Constant Current and Constant Power Discharge Meter (25°C)											
F.V\TIME		5MIN	15MIN	30MIN	60MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	119.000	57.500	34.000	20.400	12.586	8.965	6.118	4.332	3.578	1.995
	W	220.096	110.975	67.728	40.698	25.183	17.938	12.242	8.668	7.059	3.892
1.67V/cell	A	105.646	54.513	33.274	20.252	12.523	8.918	6.085	4.296	3.528	1.968
	W	195.366	105.292	66.314	40.406	25.078	17.876	12.196	8.613	6.964	3.705
1.70V/cell	A	100.007	53.169	32.983	20.104	12.492	8.896	6.083	4.253	3.473	1.939
	W	184.979	102.775	65.737	40.159	25.026	17.836	12.197	8.531	6.879	3.608
1.75V/cell	A	90.511	50.929	32.402	19.809	12.414	8.840	6.051	4.241	3.429	1.900
	W	167.421	98.547	64.626	39.667	24.864	17.733	12.138	8.514	6.826	3.553
1.80V/cell	A	80.867	48.838	31.675	19.661	12.335	8.793	6.034	4.204	3.400	1.872
	W	149.616	94.647	63.205	39.420	24.712	17.648	12.110	8.446	6.720	3.439

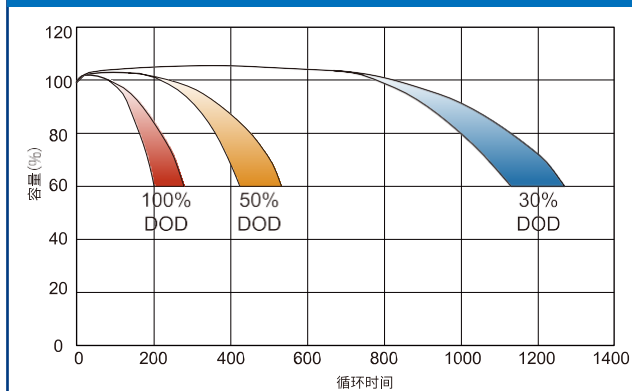
放电特性曲线图 (25°C/77°F)



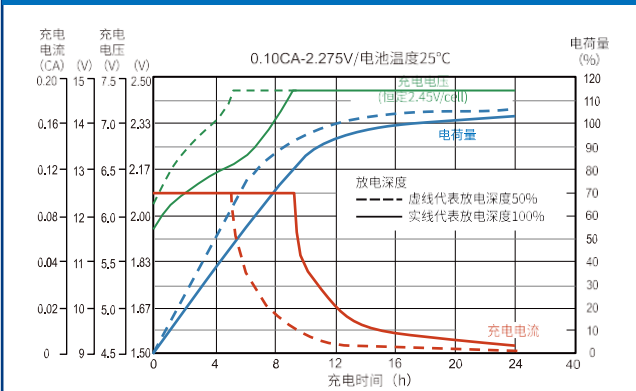
浮充充电特性曲线图 (25°C/77°F)



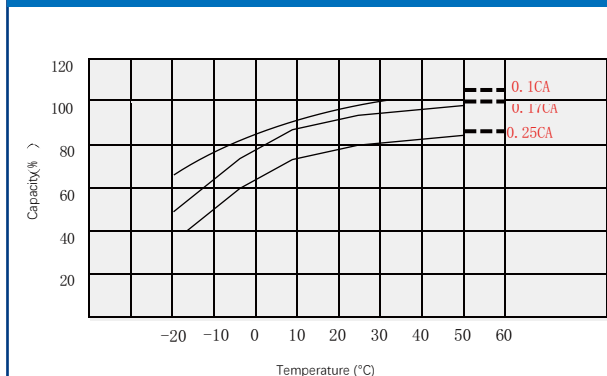
循环寿命与放电深度



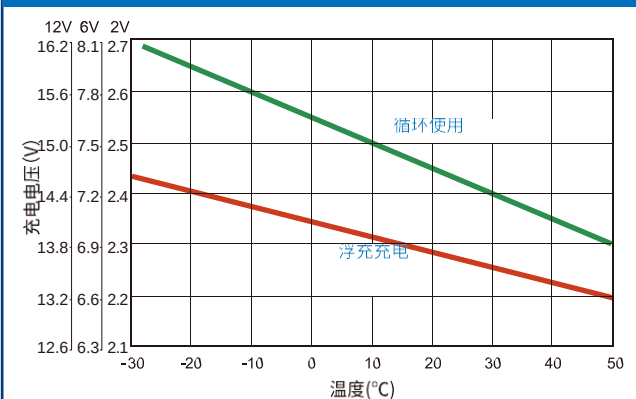
循环充电特性曲线图 (25°C/77°F)



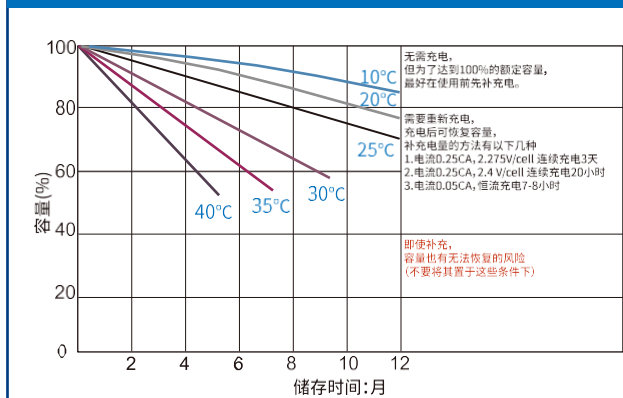
温度与容量之间的关系



充电电压与温度的关系



自放电特性



温度与浮充寿命

