

Conventional Series

GBT12-24(12V24Ah)

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

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 5 years
- * High safety performance, explosion-proof and flame retardant
- * Low internal resistance and excellent conductivity
- * excellent high rate discharge performance

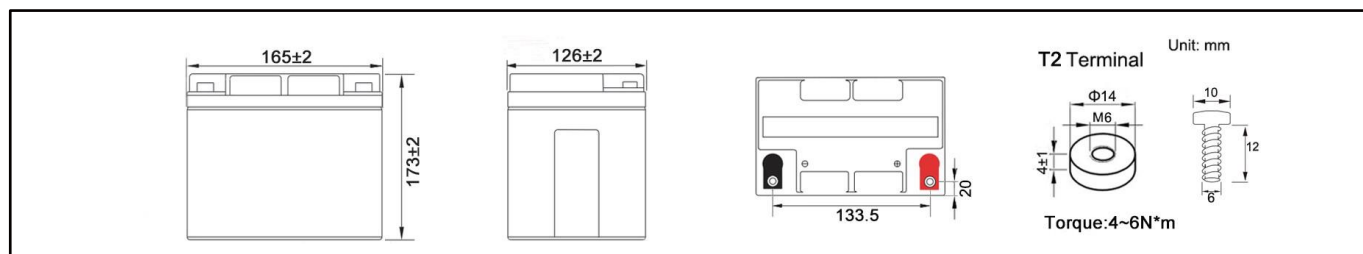
Specification

Breakdown

Battery type	Rated voltage		12V	
	Nominal Capacity (20HR)		24Ah	
	Battery type		GBT12-24	
Battery size	Long	Wide	High	Overall height (including terminals)
	165mm (6.49 inches)	126mm (4.96 inches)	173mm (6.81 inches)	173mm (6.81 inches)
Approximate weight	6.80kg (14.99lbs) ± 3%			
Capacity	20 hour rate (10.5V)	10 hour rate (10.8V)	5-hour rate (10.5V)	1 hour rate (9.6V)
	24Ah	20Ah	19.58Ah	12.45Ah
Maximum discharge current	288A (5 seconds)			
Battery internal resistance	Full Charge Approx: 18.3mΩ(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 charging current less than 7.2A)		13.50-13.80V	

Dimensional data (mm)

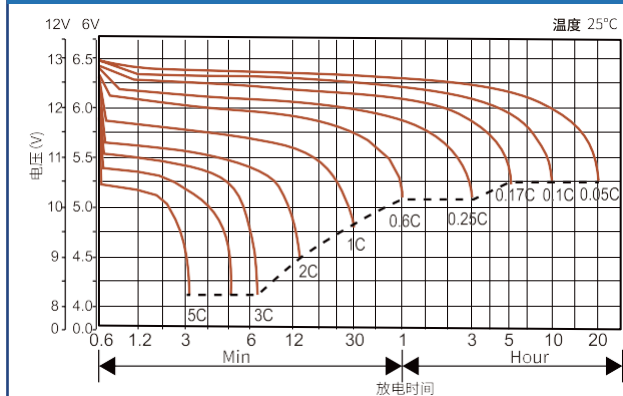
Terminal Type (mm)



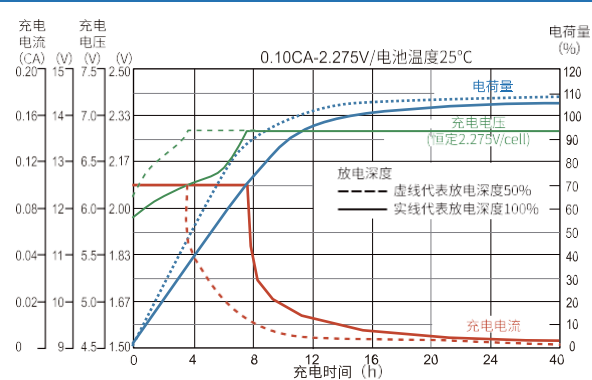
Constant Current and Constant Power Discharge Meter (25°C)

F.V\TIME	5MIN	15MIN	30MIN	60MIN	2 HR	3 HR	5HR	8HR	10HR	20HR
1.60V/cell	A	70.200	37.400	23.100	12.450	8.144	5.801	3.959	2.548	1.454
	W	129.838	72.182	46.015	24.838	16.295	11.607	7.921	4.152	2.309
1.67V/cell	A	62.322	35.457	22.606	12.360	8.103	5.771	3.937	2.527	1.345
	W	115.249	68.486	45.055	24.659	16.227	11.567	7.892	4.096	2.198
1.70V/cell	A	58.996	34.583	22.409	12.270	8.083	5.756	3.936	2.502	1.245
	W	109.122	66.849	44.663	24.509	16.193	11.541	7.892	4.047	2.140
1.75V/cell	A	53.394	33.126	22.014	12.089	8.032	5.720	3.915	2.495	1.200
	W	98.764	64.098	43.907	24.208	16.089	11.474	7.854	4.015	2.108
1.80V/cell	A	47.704	31.766	21.521	11.999	7.982	5.690	3.904	2.473	1.175
	W	88.261	61.562	42.942	24.058	15.990	11.419	7.836	3.953	2.040

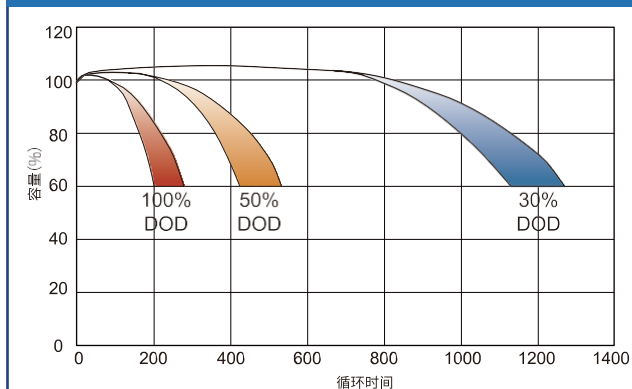
放电特性曲线图 (25°C/77°F)



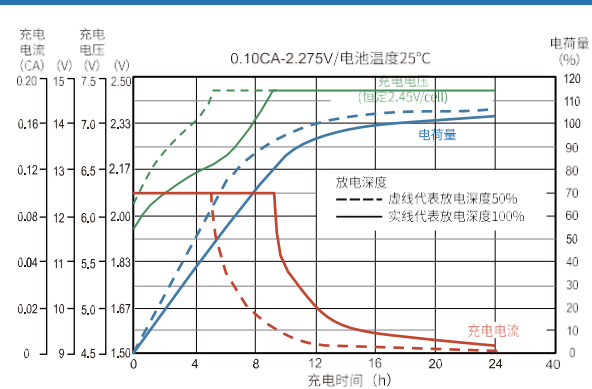
浮充充电特性曲线图 (25°C/77°F)



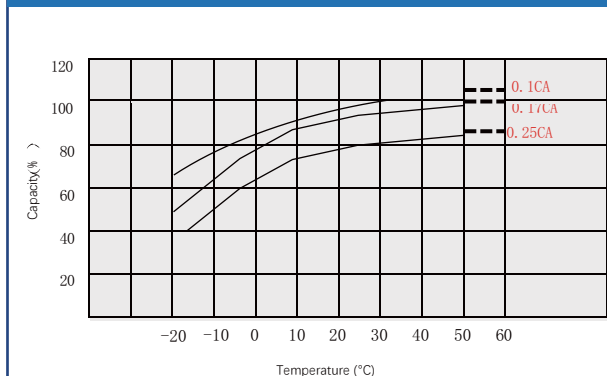
循环寿命与放电深度



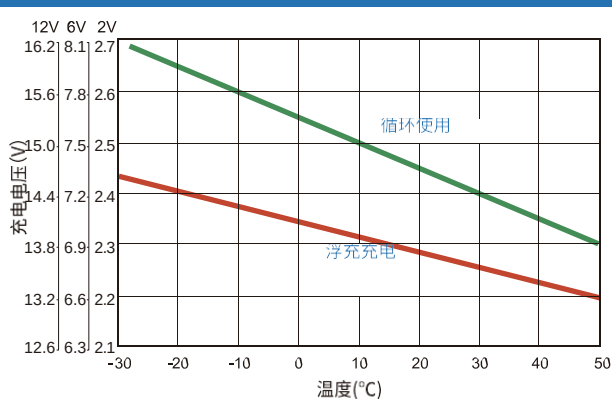
循环充电特性曲线图 (25°C/77°F)



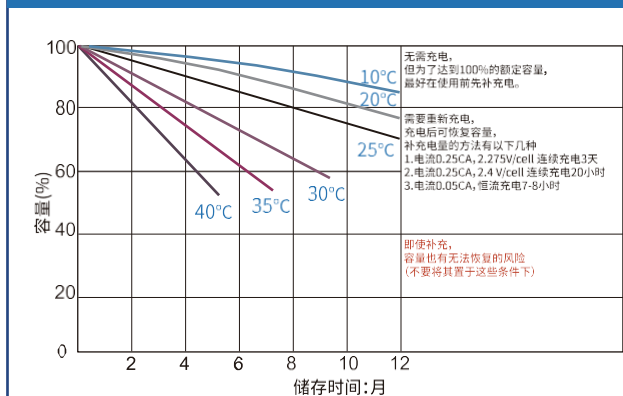
温度与容量之间的关系



充电电压与温度的关系



自放电特性



温度与浮充寿命

