

Conventional Series

GBT12-17(12V17Ah)

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 5 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

- * Highly airtight
- * Consistency
- * maintenance-free without the need to add water
- * with a design life of up to 5 years
- * Good performance in high and low temperature environments
- * High safety performance, explosion-proof and flame retardant
- * Low internal resistance and excellent conductivity
- * excellent high rate discharge performance

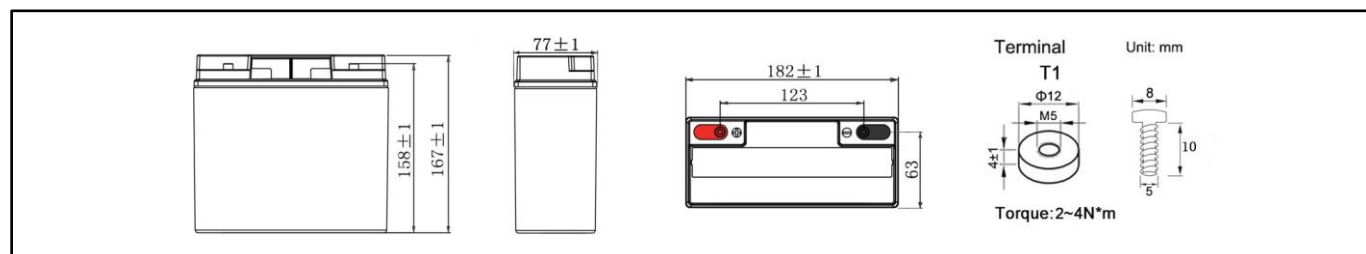
Specification

Breakdown

Battery type	Rated voltage		12V	
	Nominal Capacity (20HR)		17Ah	
	Battery type		GBT12-17	
Battery size	Long	Wide	High	Overall height (including terminals)
	182mm (7.16 inches)	77mm (3.03 inches)	167mm (6.57 inches)	167mm (6.57 inches)
Approximate weight	4.45kg (9.81lbs) ± 3%			
Capacity	20 hour rate (10.5V)	10 hour rate (10.8V)	5-hour rate (10.5V)	1 hour rate (9.6V)
	17.0Ah	16.73Ah	15.845Ah	10.20Ah
Maximum discharge current	204A (5 sec.)			
Battery internal resistance	Approx. 20.5mΩ at full charge (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	
	14.40-15.0V (initial charging current less than 5.1A)		13.50-13.80V	

Dimensional data (mm)

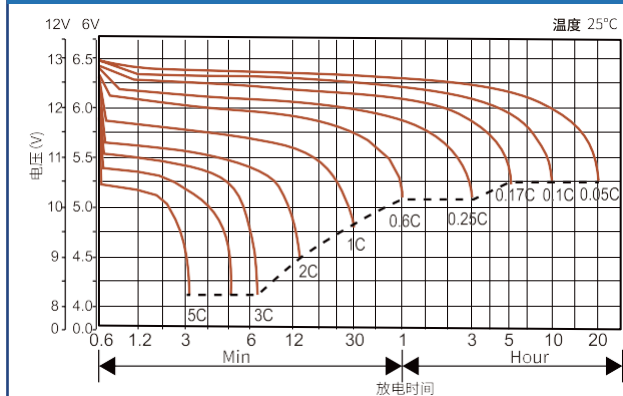
Terminal Type (mm)



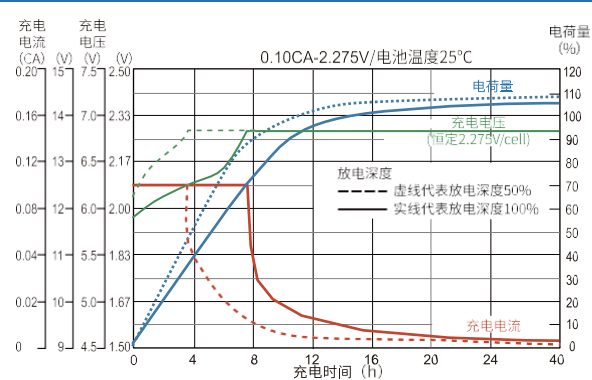
Constant Current and Constant Power Discharge Meter (25°C)

F.V\TIME		5MIN	15MIN	30MIN	60MIN	90MIN	2 HR	3HR	5HR	10HR	20HR
1.60V/cell	A	60.100	29.200	17.700	10.200	7.465	6.592	4.696	3.205	1.764	0.978
	W	111.158	56.356	35.258	20.349	14.906	13.189	9.395	6.412	3.529	1.957
1.67V/cell	A	53.356	27.683	17.322	10.126	7.391	6.559	4.671	3.187	1.737	0.929
	W	98.668	53.470	34.522	20.203	14.762	13.135	9.363	6.388	3.482	1.863
1.70V/cell	A	50.508	27.001	17.171	10.052	7.384	6.543	4.659	3.186	1.715	0.904
	W	93.422	52.192	34.222	20.080	14.753	13.107	9.342	6.388	3.440	1.814
1.75V/cell	A	45.712	25.863	16.868	9.904	7.288	6.502	4.630	3.169	1.700	0.890
	W	84.555	50.045	33.643	19.833	14.576	13.023	9.288	6.357	3.413	1.787
1.80V/cell	A	40.841	24.801	16.490	9.830	7.236	6.461	4.605	3.160	1.673	0.861
	W	75.562	48.064	32.904	19.710	14.508	12.943	9.243	6.343	3.360	1.729

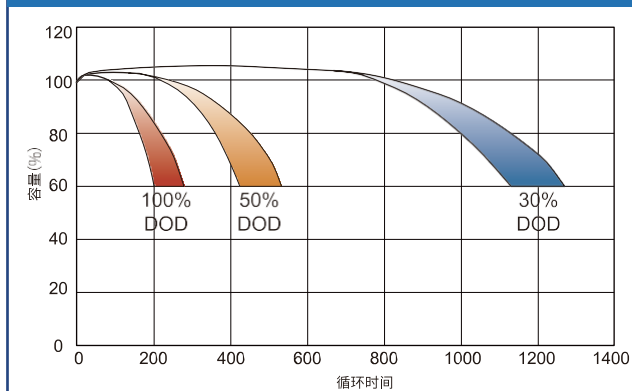
放电特性曲线图 (25°C/77°F)



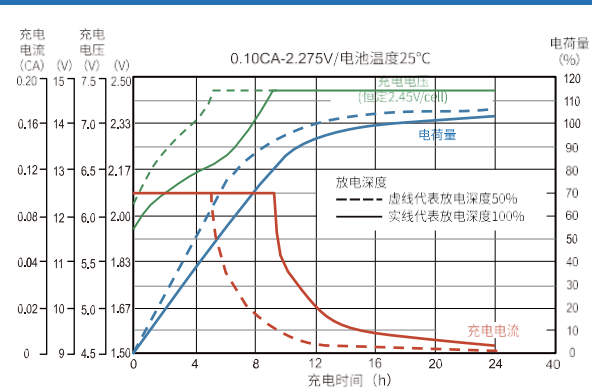
浮充充电特性曲线图 (25°C/77°F)



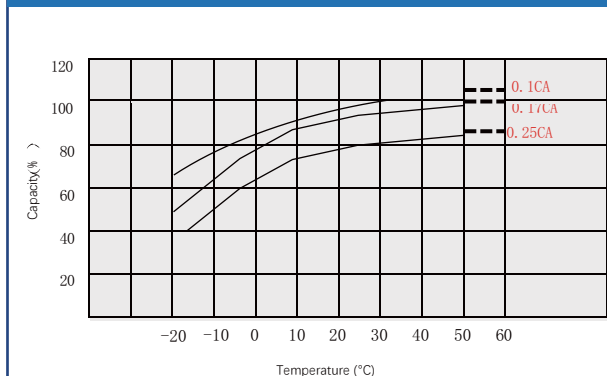
循环寿命与放电深度



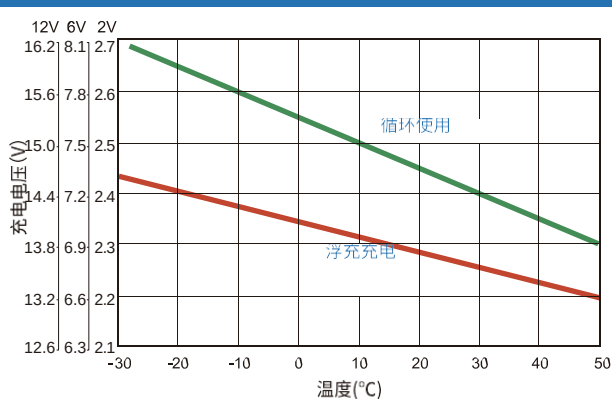
循环充电特性曲线图 (25°C/77°F)



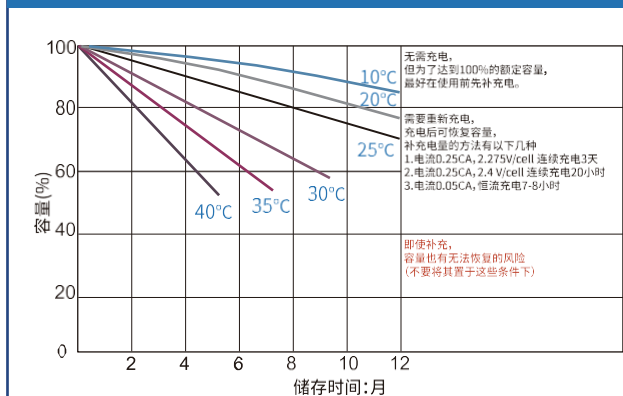
温度与容量之间的关系



充电电压与温度的关系



自放电特性



温度与浮充寿命

