



Conventional Series GBT12-65(12V65Ah)

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. 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 centers (IDC)
- * Government and Enterprise Unit (GEU) server rooms
- * Bank Backup Power
- * Fire protection 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
- * Upgraded protection with leak-proof tray as standard

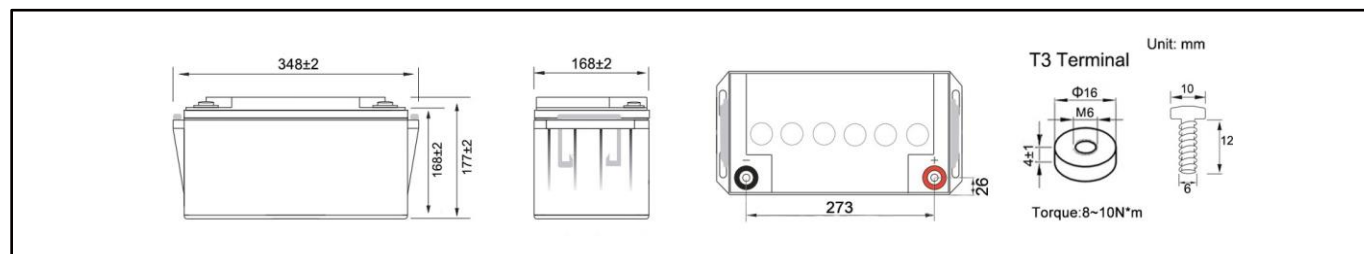
Specification

Breakdown

Battery type	Rated voltage		12V	
	Nominal Capacity (20HR)		65Ah	
	Battery type		GBT12-65	
Battery size	Long	Wide	High	Overall height (including terminals)
	348mm (13.70 inches)	168mm (6.61 inches)	177mm (6.96 inches)	177mm (6.96 inches)
Approximate weight	18.0kg(39.68lbs) ± 3%			
Capacity	20 hour rate (10.5V)	10 hour rate (10.8V)	5-hour rate (10.5V)	1 hour rate (9.6V)
	65Ah	60.5Ah	55.75Ah	40Ah
Maximum discharge current	780A (5 seconds)			
Battery internal resistance	Approx. 7.9mΩ 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 charging current less than 19.5A)		13.50-13.80V	

Dimensional data (mm)

Terminal Type (mm)

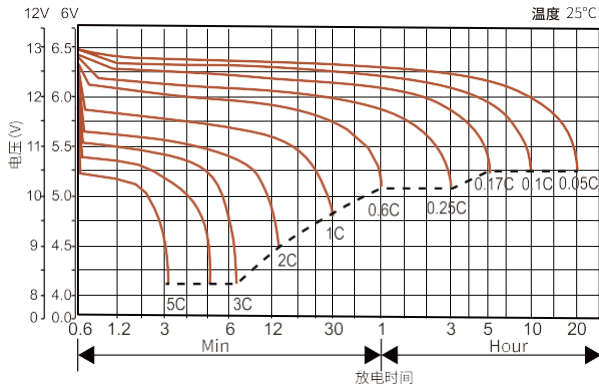


Constant current and constant power discharge meter (25°C)

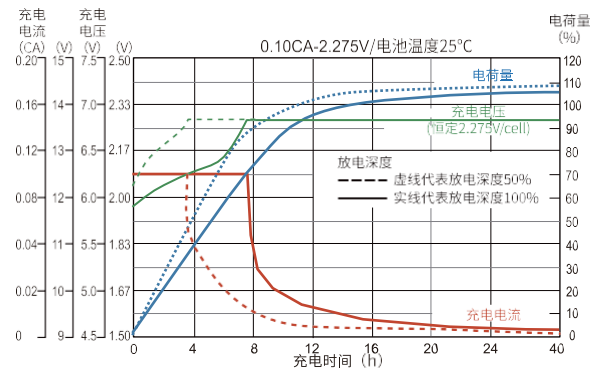
F.V\TIME		5MIN	15MIN	30MIN	60MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	180.000	97.500	61.000	36.600	22.320	15.800	10.700	7.420	6.150	3.290
	W	310.000	178.000	114.900	70.600	43.770	31.160	21.210	14.750	12.240	6.570
1.67V/cell	A	167.000	92.900	59.400	36.100	22.130	15.640	10.580	7.380	6.130	3.290
	W	292.000	171.000	112.300	69.900	43.460	30.890	21.000	14.680	12.210	6.560
1.70V/cell	A	160.000	90.600	58.600	35.830	22.010	15.550	10.510	7.350	6.110	3.279
	W	282.000	167.000	111.100	69.500	43.260	30.730	20.870	14.630	12.180	6.540
1.75V/cell	A	145.000	86.000	57.000	35.250	21.740	15.350	10.360	7.290	6.080	3.262
	W	260.000	160.000	108.600	68.600	42.830	30.400	20.610	14.540	12.100	6.500
1.80V/cell	A	129.000	81.300	55.300	34.640	21.450	15.130	10.200	7.220	6.050	3.250
	W	235.000	153.000	106.000	67.700	42.360	30.030	20.340	14.430	12.000	6.440



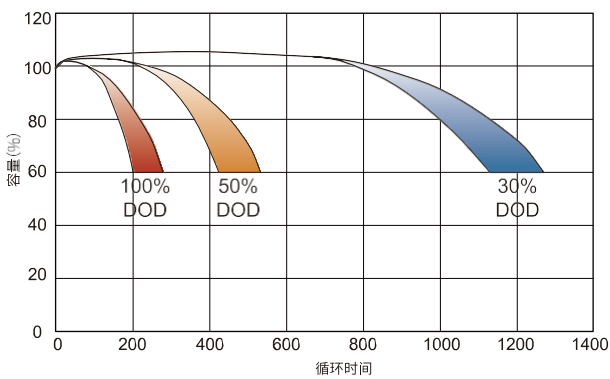
放电特性曲线图 (25°C/77°F)



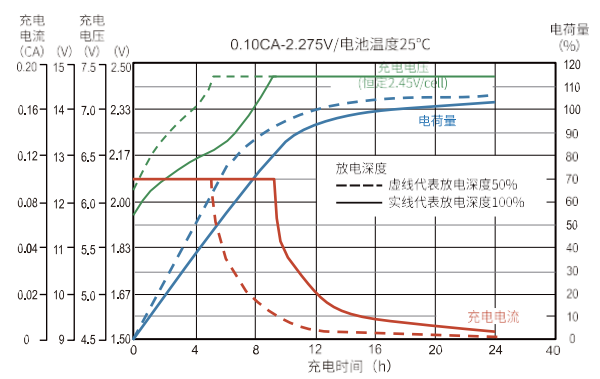
浮充充电特性曲线图 (25°C/77°F)



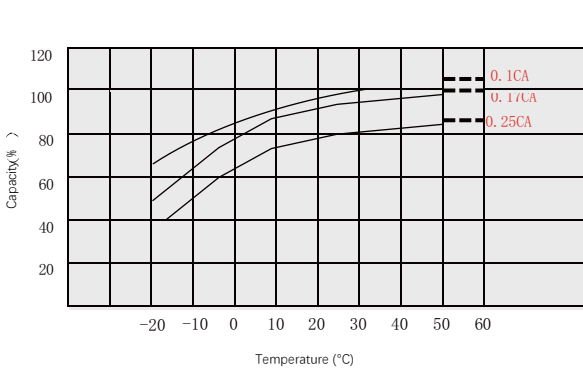
循环寿命与放电深度



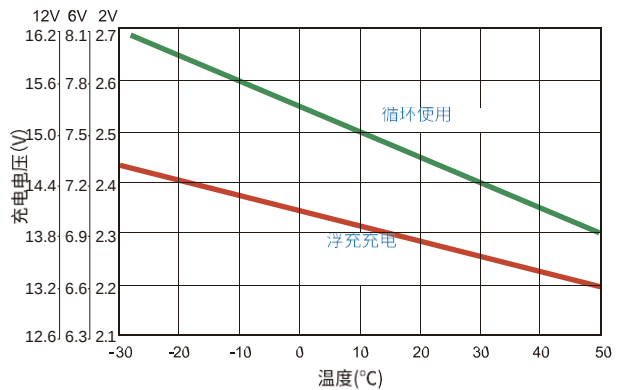
循环充电特性曲线图 (25°C/77°F)



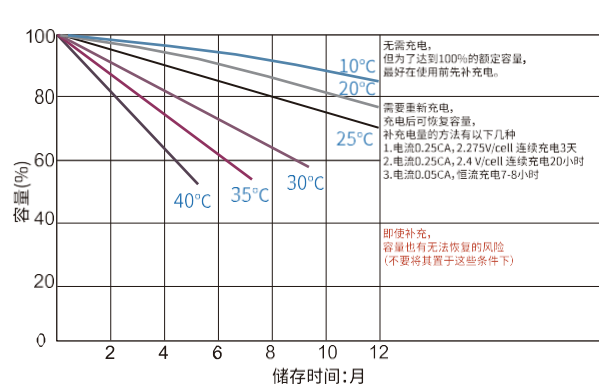
温度与容量之间的关系



充电电压与温度的关系



自放电特性



温度与浮充寿命

