Conventional Series

GBT12-80(12V80Ah)

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 (25C°).

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 ValveEPDM
* Positive plate lead dioxide
* Negative plate sponge lead
* electrolytes sulfuric acid
* Partitions fiberglass wool
* Terminals copper
* HousingABS material flame retardantUL94-HB UL94-V0

Product Advantage

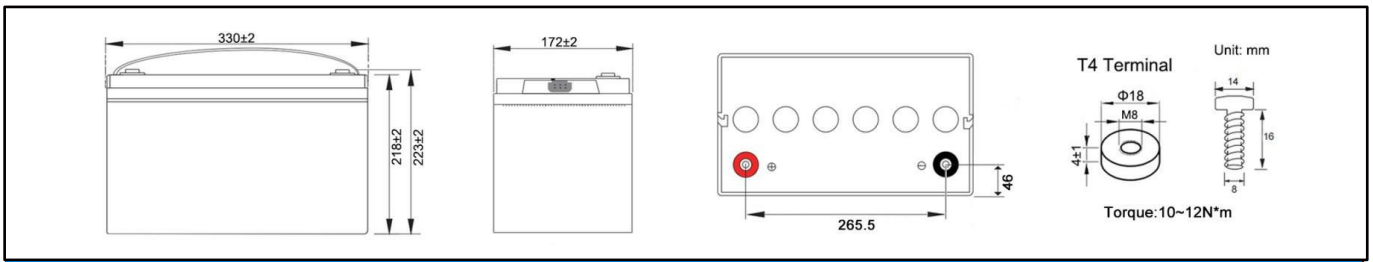
* Low self-discharge
* Highly airtight
* Consistency
* maintenance-free without the need to add water
* with a design life of up to 12 years
* High safety performance, explosion-proof and flame retardant
* Low internal resistance and excellent conductivity
* excellent high rate discharge performance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

Specification Breakdown

Battery type	Rated voltage		12V	
	Nominal Capacity (20HR)		80Ah	
	Battery type		GBT12-80	
Battery size	Long	Wide	High	Overall height (including terminals)
	330mm (12.99 inches)	172mm (6.77 inches)	218mm (8.58 inches)	223mm (8.77 inches)
Approximate weight	20.0kg(44.09lbs) ± 3%			
Capacity (Ah) (25℃)	20 hour rate (10.5V)	10 hour rate (10.8V)	5-hour rate (10.5V)	1 hour rate (9.6V)
	80Ah	70Ah	60.6Ah	48.30Ah
Maximum discharge current	960A (5 sec.)			
Battery internal resistance	Approx. 5.04mΩ at full power (25C°)			
capacity under the influence of temperature	40℃ (104 °F)	25℃ (77 °F)	0℃ (32 °F)	-15℃ (5 °F)
	102%	100%	85%	65%
Self-discharge @25℃ (77 ° F)	stored for one month		three months of storage	Storage for twelve months
	98%		94%	74%
Charging Method @25℃ (77 ° F)	Recycling		Float-charged use	
	14.40-15.00V (initial charging current less than 24A)		13.50-13.80V	

Dimensional data (mm)

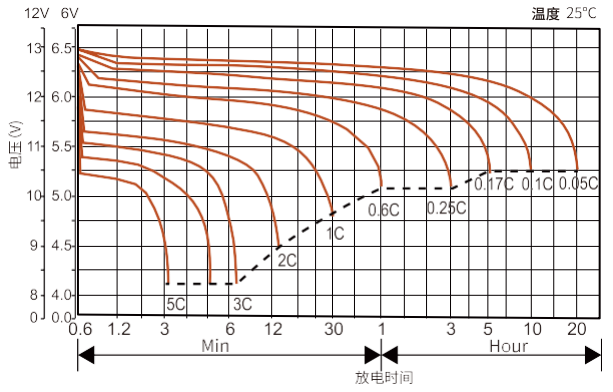
Terminal Type (mm)



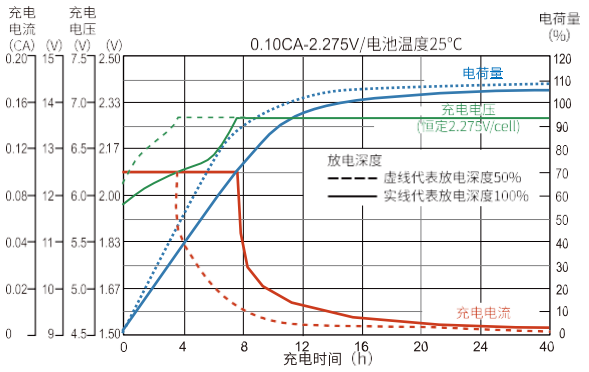
Constant Current and Constant Power Discharge Meter (25°C)

F.V\TIME		5MIN	15MIN	30MIN	60MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	283.000	138.000	83.500	48.300	28.500	20.500	12.560	8.700	7.240	4.350
	W	497.000	250.000	155.000	90.400	53.900	39.040	24.100	16.880	14.140	7.610
1.67V/cell	A	266.000	133.000	80.600	47.000	27.800	20.100	12.420	8.620	7.190	4.220
	W	467.000	240.000	151.000	88.400	53.000	38.440	23.900	16.760	14.070	7.570
1.70V/cell	A	255.000	129.000	78.900	46.100	27.400	19.900	12.340	8.570	7.160	4.120
	W	450.000	234.000	149.000	87.400	52.500	38.140	23.800	16.700	14.030	7.550
1.75V/cell	A	233.000	121.000	75.400	44.300	26.600	19.400	12.120	8.440	7.080	4.000
	W	416.000	222.000	143.000	84.600	51.100	37.440	23.500	16.520	13.920	7.490
1.80V/cell	A	210.000	112.000	71.600	42.300	25.600	18.800	11.850	8.280	7.000	3.900
	W	381.000	209.000	137.000	81.400	49.500	36.600	23.150	16.300	13.790	7.410

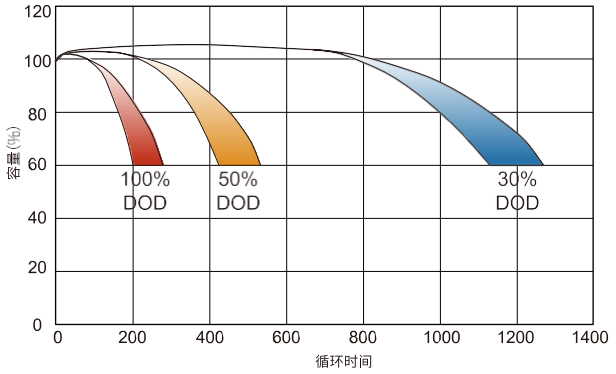
放电特性曲线图(25°C/77°F)



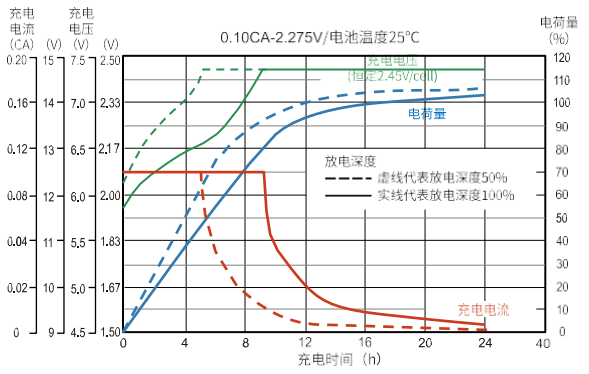
浮充充电特性曲线图(25°C/77°F)



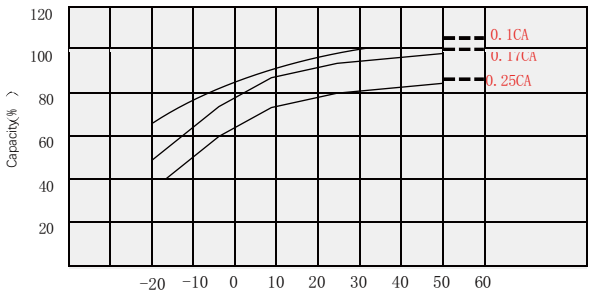
循环寿命与放电深度



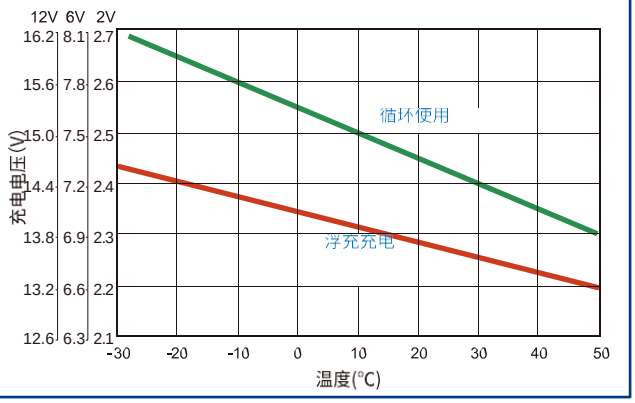
循环充电特性曲线图(25°C/77°F)



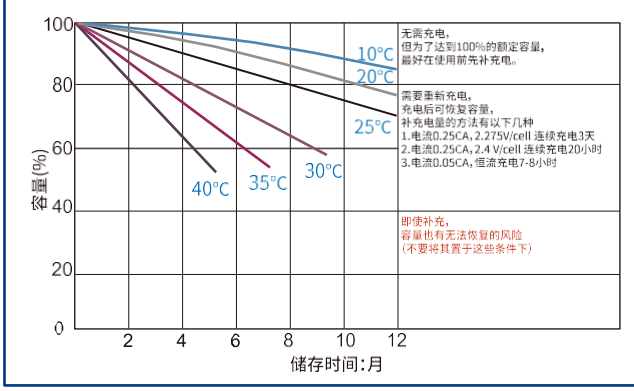
温度与容量之间的关系



充电电压与温度的关系



自放电特性



温度与浮充寿命