

GENERAL FEATURES

- Longer cycle life: special paste formula, over dimensioned negative plate, optimized manufacturing process, additives for deep discharge.
- Special separators boost up the battery internal performance.
- Using oxygen recombination technology, maintenance-free and little water losing.
- ABS material: enhanced strength of the battery container. (Flame-retardant ABS is optional).
- Designed to have a lifespan of 15 years for float charging at 25°C



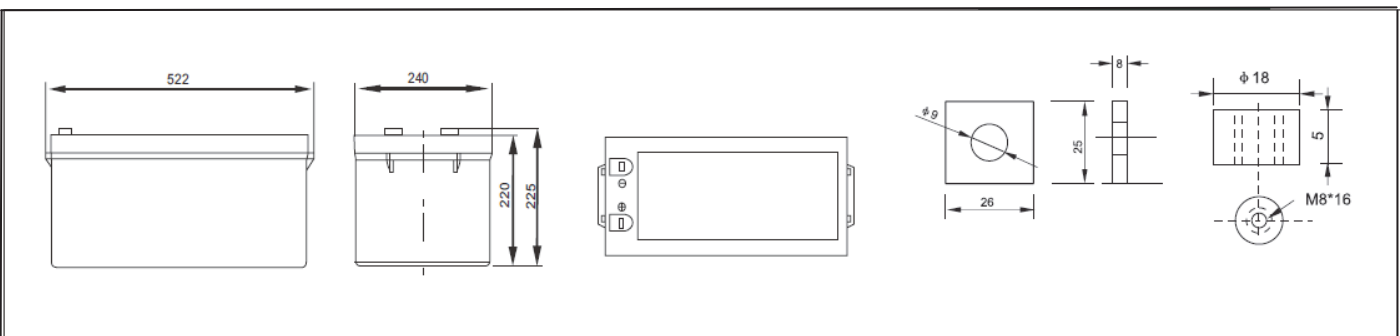
APPLICATIONS

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|---|-------------------------------|------------------------------------|
| ● Electric tools | ● Electric toys | IEC60095
GB/T19638-2005 |
| ● Vehicle in place of walking | ● Railway and marine systems | |
| ● Lawn mowers | ● Fire alarms | ISO9001/ISO14001/
OHSAS18001/CE |
| ● Golf trolleys and golf cart | ● Solar and wind power system | |
| ● Power system of special network or local area network | ● Electric wheelchairs | |
| | ● Medical equipment | |

SPECIFICATIONS

Model	Nominal Voltage	12V		
	Rated Capacity (10Hr rate)	200Ah		
Dimensions	Length	Width	Height	Total Height
	522mm	240mm	220mm	244mm
Weight	Approx. 60 kgs (+/- 3%)			
Capacity @25°C (77°F)	100Hour (2.5A,10.8V)	10 Hour (20A,10.8V)	5 Hour (34A,10.8V)	1Hour (110A,10.5V)
	250Ah	200Ah	170Ah	110Ah
Internal Resistance	Fully charged at 25°C, approx. 2.5mΩ			
Max. Discharge current	2000A (5 Sec.)			
Capacity Affected by Temp. (20Hr)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	112%	100%	80%	68%
Self Discharge Rate @25°C (77°F)	After 3 months Storage	After 6 months Storage	After 12 months Storage	
	91%	82%	64%	
Charge Method	Cycle Use		Float Charging	
	14.1-14.4V (Initial current less than 73A) @25°C (77°F)		13.5-13.8V@25°C (77°F)	

DIMENSIONS & TERMINALS

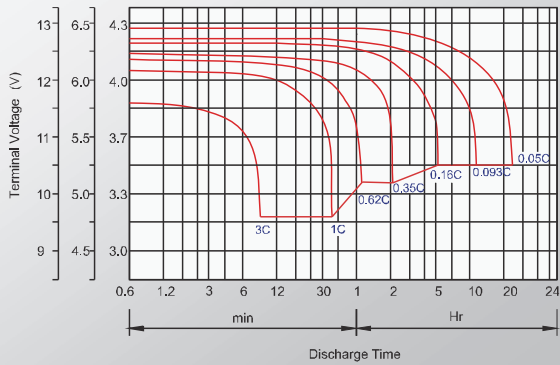


PERFORMANCE CHARACTERISTICS

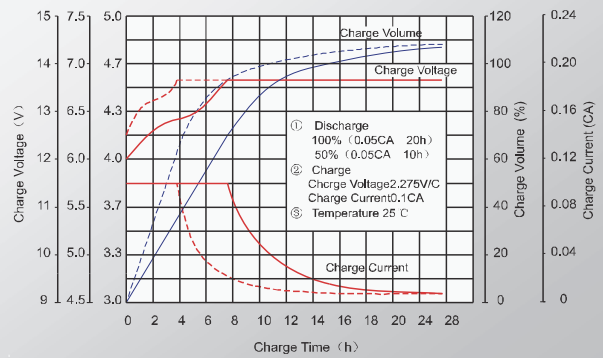
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(72°F)

		10min	30min	1h	2h	3h	4h	5h	8h	10h	20h	50h	100h
9.60V	A	400.0	220.0	120.0	70.0	52.0	42.0	35.6	23.2	22.0	11.4	4.76	2.62
	W	4240	2343	1284	756	567	462	391.6	257.1	244.2	127.7	53.3	29.3
10.20V	A	380.0	218.0	112.8	66.8	51.0	41.0	34.8	22.8	20.7	11.2	4.60	2.56
	W	4180	2409	1252	748	576	465	395	258	235	127	52.2	29.1
10.50V	A	340.0	204.0	110.0	65.2	50.0	40.0	34.0	22.5	20.4	11.1	4.54	2.52
	W	3808	2295	1243	743	573	460	391	259	235	127	52.2	29.0
10.80V	A	320.0	188.0	106.0	63.6	49.0	39.0	30.4	21.9	20.0	10.9	4.5	2.5
	W	3632	2143	1214	735	568	454	354	255	233	127	52.2	29.1
11.10V	A	300.0	168.0	100.0	62.0	47.0	38.0	29.0	21.3	19.5	10.8	4.40	2.46
	W	3450	1940	1160	725	552	448	342	252	230	127	51.9	29.0

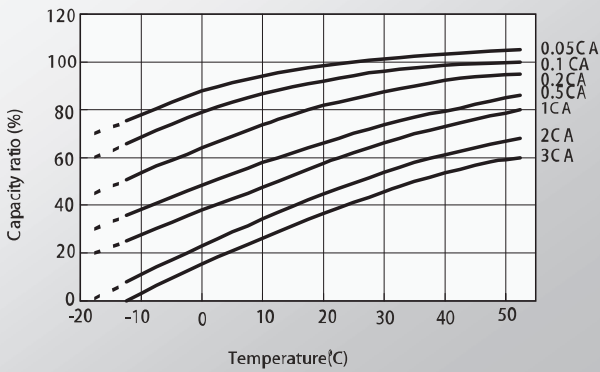
DISCHARGE CHARACTERISTICS



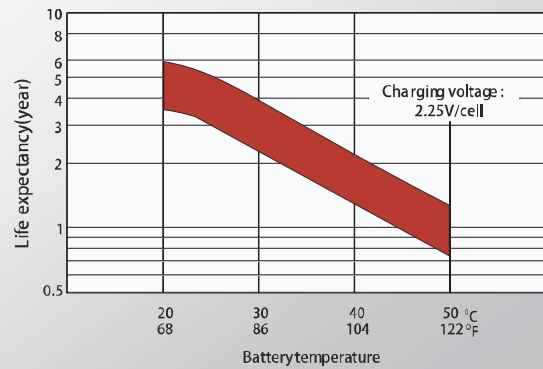
CHARGING CHARACTERISTICS (STANDBY)



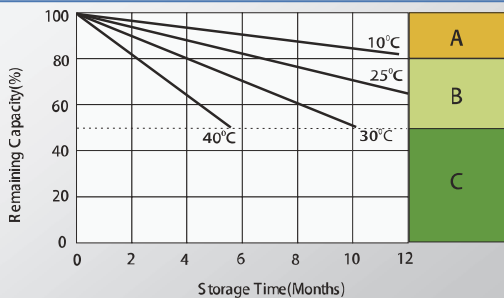
TEMP. EFFECTS IN RELATION TO BATTERY CAPACITY



EFFECT OF TEMP. ON LONG TERM FLOAT DESIGNED LIFE



SELF DISCHARGE CHARACTERISTICS



A. No supplementary charge required. (Carry out supplementary charge before use if 100% capacity is required.)
 B. Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8-10hours at limited current 0.05CA.
 C. Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

CYCLE LIFE IN RELATION TO THE DEPTH OF DISCHARGE

