

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 12 years for float charging at 25°C

APPLICATIONS

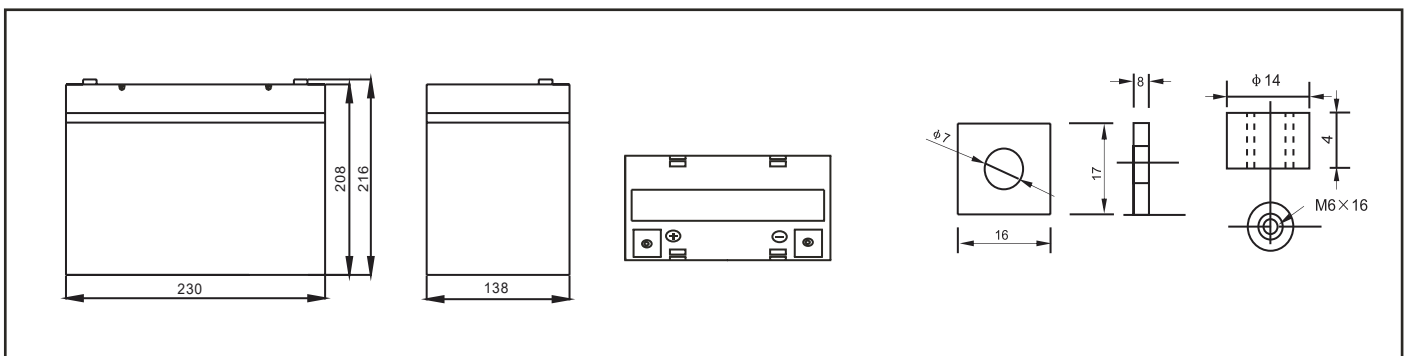
- Electric tools
- Vehicle in place of walking
- Lawn mowers
- Golf trolleys and golf cart
- Power system of special network or local area network
- Electric toys
- Railway and marine systems
- Fire alarms
- Solar and wind power system
- Electric wheelchairs
- Medical equipment



SPECIFICATIONS

Model	Nominal Voltage	12V		
	Rated Capacity (10Hr rate)	50Ah		
Dimensions	Length	Width	Height	Total Height
	230mm (9.06")	138mm (5.43")	208mm (8.19")	216mm (8.50")
Weight	Approx. 16.50kg(36.38lbs) ± 3%			
Capacity @25°C (77°F)	10 Hour (5.5A,10.8V)	5 Hour (9.4 A,10.5V)	3 Hour (13.8 A,10.2V)	1 Hour (30A,9.6V)
	55.0Ah	46.8Ah	41.5Ah	30.0Ah
Internal Resistance	Fully charged at 25°C, approx. 12.0mΩ			
Max. Discharge current	500A (5 Sec.)			
Capacity Affected by Temp. (20Hr)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
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 18.4A) @25°C (77°F)		13.5-13.8V@25°C (77°F)	

DIMENSIONS & TERMINALS

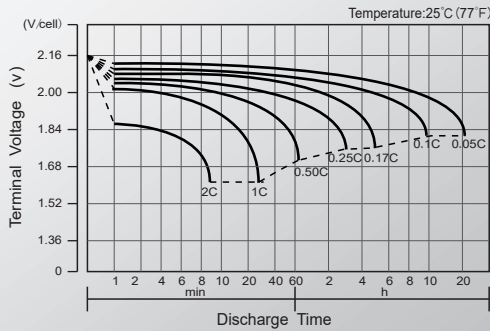


PERFORMANCE CHARACTERISTICS

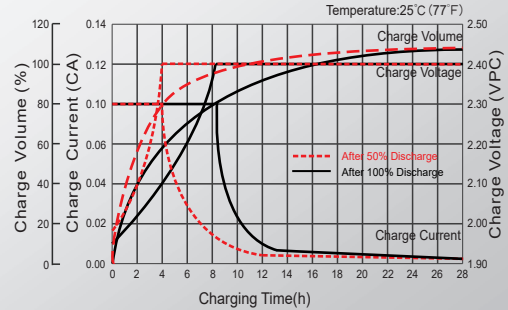
Constant Current (Amp.) and Constant Power (Watt) Discharge Table @25°C (77°F)

Cell Voltage	Time	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
9.60V	A	136.90	101.90	79.77	52.46	32.07	19.31	13.97	11.15	9.47	6.41	5.32	2.92
	W	1444.00	1086.00	869.70	588.60	370.50	227.50	166.60	132.90	112.90	61.68	76.55	34.98
10.20V	A	129.00	93.58	76.91	51.43	31.62	19.02	13.81	11.05	9.35	6.31	5.22	2.81
	W	1399.00	1025.00	846.00	586.70	366.80	225.00	165.50	132.40	112.30	75.69	62.65	33.74
10.50V	A	117.20	87.37	74.09	51.15	31.33	18.87	13.75	10.94	9.24	6.26	5.17	2.75
	W	1289.00	965.50	816.50	584.00	363.50	223.20	163.90	130.20	111.50	75.10	62.03	33.00
10.80V	A	107.00	80.60	69.09	50.90	30.26	18.53	13.38	10.68	9.00	6.00	5.00	2.61
	W	1188.00	900.40	763.50	581.50	353.00	220.50	160.40	128.20	108.20	72.07	60.10	31.34
11.10V	A	92.41	72.88	62.68	48.07	28.75	17.71	12.79	10.17	8.63	5.75	4.86	2.46
	W	1055.00	823.60	695.10	552.70	337.90	212.30	153.50	122.00	103.60	69.10	58.28	29.49

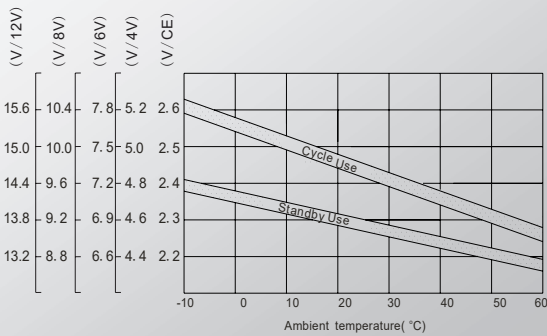
DISCHARGE CHARACTERISTICS



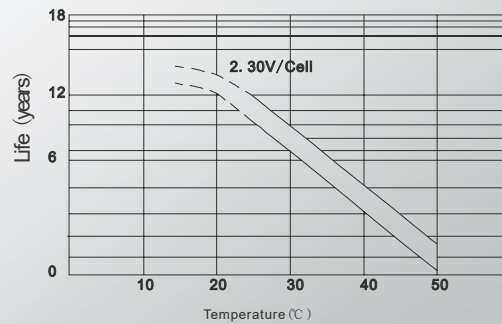
CHARGING CHARACTERISTICS (STANDBY)



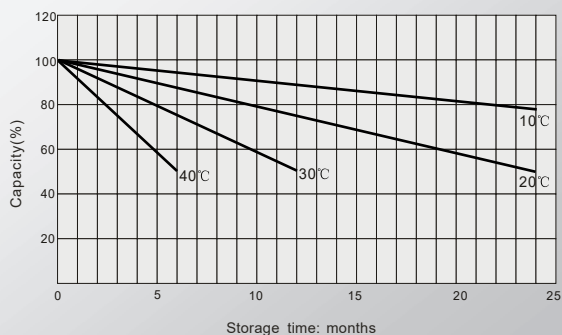
CHARGING VOLTAGE V.S. TEMP.



EFFECT OF TEMP. ON LONG TERM FLOAT DESIGNED LIFE



SELF DISCHARGE CHARACTERISTICS



CYCLE LIFE IN RELATION TO THE DEPTH OF DISCHARGE

