GENERAL FEATURES

- Longer cycle life: Pure Gel battery, 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



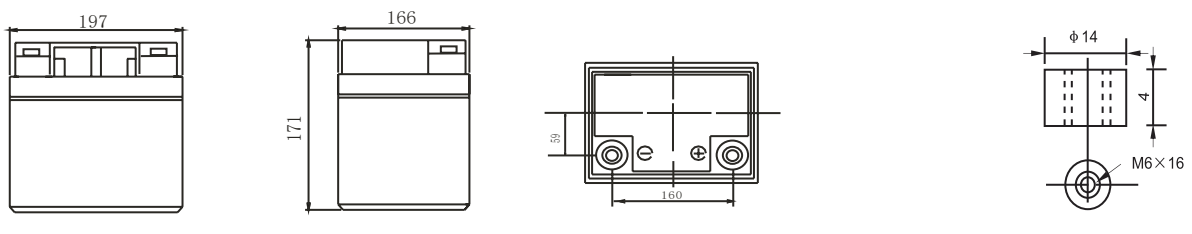
APPLICATIONS

- 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 (20Hr rate)	40Ah		
Dimensions	Length	Width	Height	Total Height
	197mm (7.73")	166mm (6.54")	171mm (6.73")	171mm (6.73")
Weight	Approx. 12.1 kg(26.67 lbs) ± 3%			
Capacity @25℃ (77℉)	10 Hour (4.0A,10.8V)	5Hour (6.8A,10.5V)	3 Hour (10 A,10.2V)	1 Hour (22.0A,9.6V)
	40.0Ah	34Ah	30.0Ah	22.0Ah
Internal Resistance	Fully charged at 25℃, approx. 13.0mΩ			
Max. Discharge current	400A (5 Sec.)			
Capacity Affected by Temp. (20Hr)	40℃ (104℉)	25℃ (77℉)	0℃ (32℉)	-15℃ (5℉)
	102%	100%	85%	65%
Self Discharge Rate @25℃ (77℉)	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 12.0A) @25℃ (77℉)		13.5-13.8V@25℃ (77℉)	

DIMENSIONS & TERMINALS

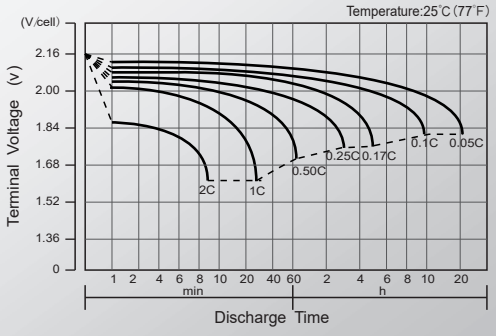


PERFORMANCE CHARACTERISTICS

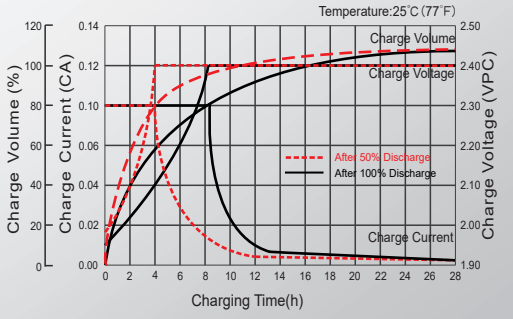
Constant Current (Amp.) and Constant Power (Watt) Discharge Table @25℃（77℉）

Cell Voltage / Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
9.60V	A	117.90	77.60	62.60	42.00	22.10	12.90	9.50	7.40	6.07	4.31	3.86	2.09
	W	1216.40	829.30	671.20	451.00	238.50	141.40	105.80	82.80	69.04	49.34	44.63	24.26
10.20V	A	114.20	70.10	59.00	40.10	20.80	12.30	9.20	7.20	5.96	4.20	3.79	2.02
	W	1219.20	782.40	659.70	450.30	234.70	140.80	105.40	82.60	68.78	49.08	44.53	23.78
10.50V	A	110.40	62.70	51.60	37.50	20.10	12.00	9.00	7.10	5.89	4.16	3.72	2.01
	W	1206.00	712.90	588.40	432.00	232.70	139.10	103.50	82.30	66.68	48.90	43.98	23.71
10.80V	A	106.40	59.10	47.90	34.60	19.40	11.70	8.80	7.00	5.74	4.05	3.68	1.99
	W	1194.10	681.10	552.00	400.80	226.20	137.10	103.30	82.10	67.86	47.97	43.74	23.67
11.10V	A	102.90	55.30	44.20	30.90	18.80	11.40	8.50	6.80	5.59	3.94	3.50	1.88
	W	1166.40	640.90	514.90	361.70	220.70	134.80	100.60	80.60	66.75	47.16	42.20	22.75

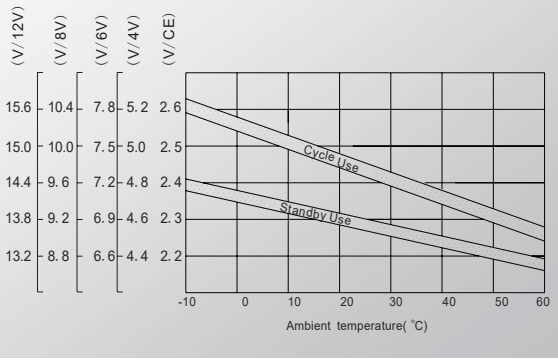
DISCHARGE CHARACTERISTICS



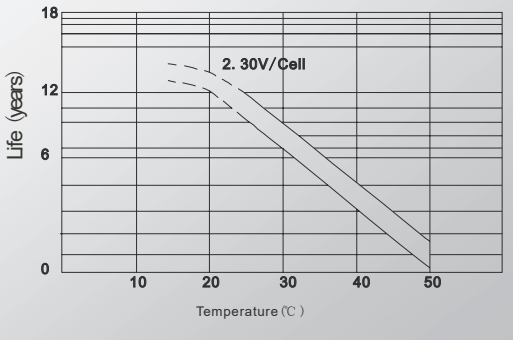
CHARIGING CHARACTERISTICS (STANDBY)



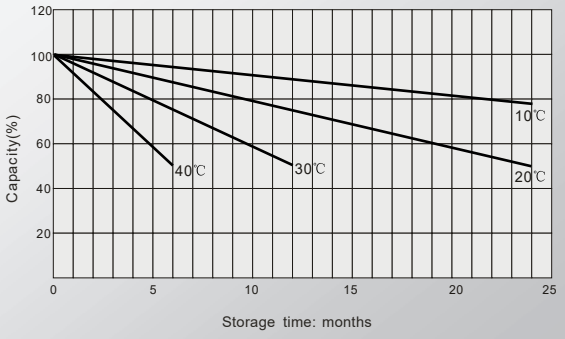
CHARGING VOLTAGE V.S. TEMP.



EFFECT OF TEMP. ON LONG TERM FLOAT DESIGNED LIFE



SELF DISCHARGE CHARACTERISTICS



CYCLE LIFE IN RELATION TO THE DEPTH OF DISCHARGE

