

## Sealed Lead Acid Battery 12V-9AH



### GENERAL FEATURES

- Designed with AGM (Absorbent Glass Mat) technology, equipping highperformance plates and electrolyte, the 6FM7 is a general-purpose VRLA batterywith a lifespan of 5 years for float charging at 25°C
- Using oxygen recombination technology, maintenance-free.
- ABS material: enhanced strength of the battery container. (Flame-retardant ABSis optional).

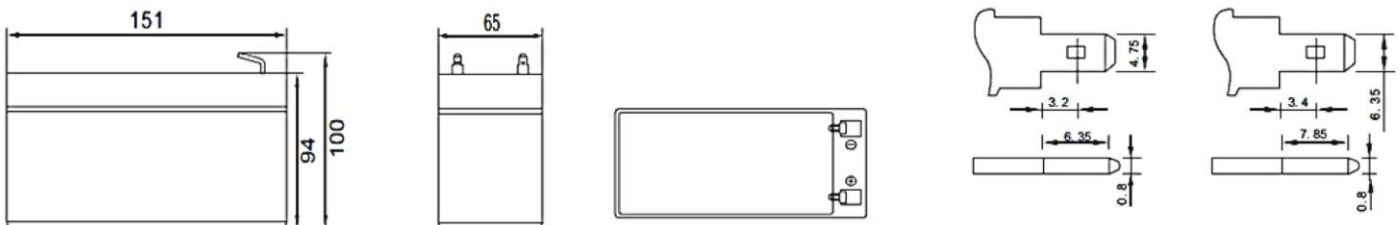
### APPLICATIONS

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup system
- Emergency light
- Railway Signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system

## SPECIFICATIONS

Model	Nominal Voltage	12V		
	Rated Capacity (20Hr rate)	9Ah		
Dimensions	Length	Width	Height	Total Height
	151mm (5.94")	65mm (2.56")	94mm (3.7")	100mm (3.94")
Weight	Approx. 2.50KG (5.51lbs) ± 3%			
Capacity @25°C (77°F)	20 hour (0.45A,10.8V)	10 hour (0.83A,10.5V)	5 Hour ( 1.53A,10.2V)	1 Hour (5.4A,9.6V)
	9.0Ah	8.3 Ah	7.65 Ah	5.4Ah
Internal Resistance	Fully charged at 25°C, approx. 20mΩ			
Max. Discharge Current	90A (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	After 3 months Storage	After 6 months Storage	After 12 months Storage	
	91%	82%	64%	
Charge Method	Cycle Use		Float Charging	
	14.4-15.0V (Initial current less than 3.4A) @25°C (77°F)		13.5-13.8V@25°C (77°F)	

## DIMENSIONS & TERMINALS

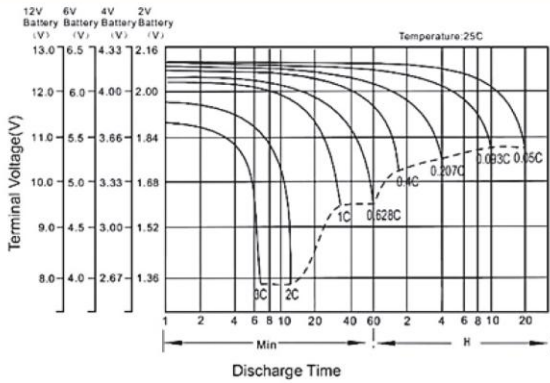


## PERFORMANCE CHARACTERISTICS

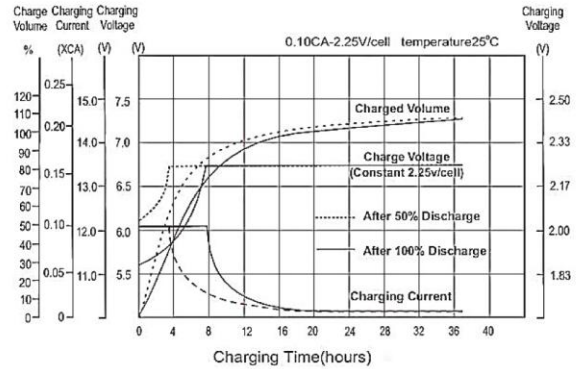
Constant Current (Amp.) and Constant Power (Watt) Discharge Table @25°C (77°F)

Cell Voltage	Time	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
		9.60V	A	32.40	21.20	15.80	10.35	5.40	3.15	2.32	1.86	1.58	1.04
	W	382.10	240.00	181.50	109.90	62.30	36.50	26.81	21.53	18.26	12.04	9.86	5.40
10.20V	A	29.70	20.30	14.50	9.83	5.07	3.02	2.25	1.80	1.55	1.02	0.84	0.45
	W	359.60	227.30	170.60	109.10	58.50	35.00	26.06	20.85	17.93	11.85	9.68	5.25
10.50V	A	27.00	19.00	13.50	9.52	4.91	2.96	2.21	1.71	1.54	1.01	0.83	0.45
	W	347.20	220.50	163.10	108.00	56.80	34.30	25.61	19.80	17.81	11.74	9.60	5.25
10.80V	A	26.00	18.20	12.60	9.26	4.74	2.89	2.18	1.68	1.46	0.99	0.81	0.45
	W	304.50	213.80	157.10	107.60	55.10	33.60	25.31	19.56	17.03	11.25	9.38	5.10
11.10V	A	24.00	17.10	11.70	9.00	4.57	2.81	2.06	1.65	1.40	0.96	0.79	0.43
	W	294.40	206.60	149.60	106.90	54.40	33.40	24.56	19.50	16.65	10.87	9.19	5.06

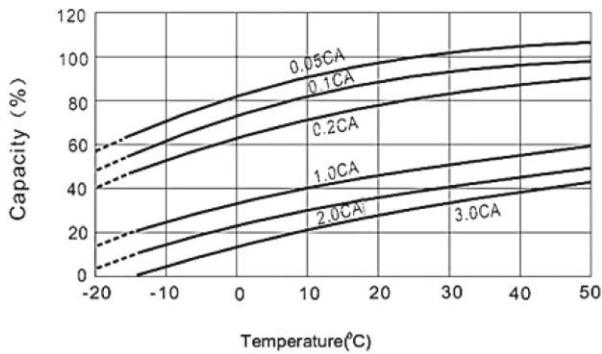
## DISCHARGE CHARACTERISTICS



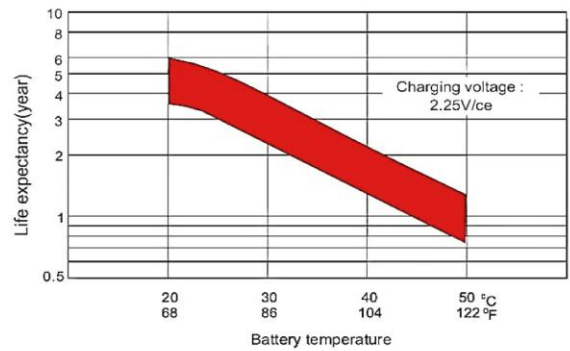
## CHARGING CHARACTERISTICS (STANDBY)



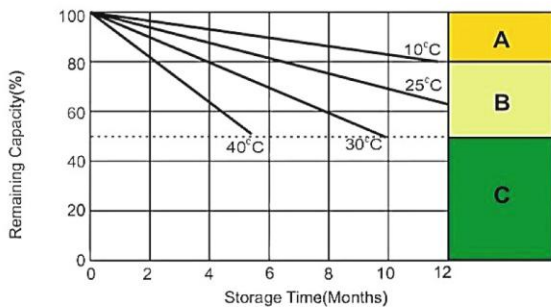
## TEMP. EFFECTS IN RELATION TO BATTERY CAPACITY



## 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 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
 3. Charged for 8-10 hours 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

