

GENERAL FEATURES

- Designed with AGM (Absorbent Glass Mat) technology, equipping high performance plates and electrolyte, the 6FM18 is a general-purpose VRLA battery with 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 ABS is optional).

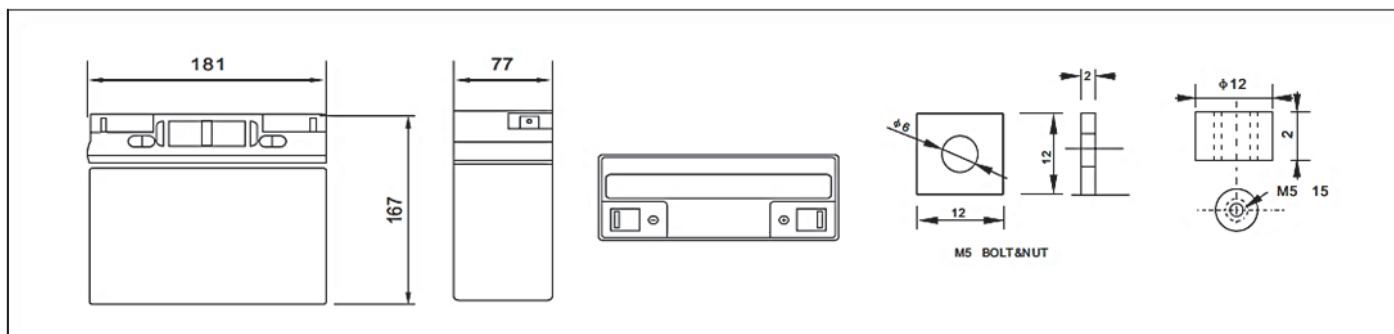
APPLICATIONS

- 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)	18Ah		
Dimensions	Length	Width	Height	Total Height
	181mm (7.13")	77mm (3.03")	167mm (6.57")	167mm (6.57")
Weight	Approx. 6.3 KG (13.89 lbs) ± 3%			
Capacity @25°C (77°F)	20 hour (0.9A,10.8V)	10 hour (1.66A,10.5V)	5 Hour (3.06A,10.2V)	1 Hour (10.8A,9.6V)
	18Ah	16.6Ah	15.3Ah	10.8Ah
Internal Resistance	Fully charged at 25°C, approx. 13mΩ			
Max. Discharge Current	180A (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 5.4A) @25°C (77°F)		13.5-13.8V@25°C (77°F)	

DIMENSIONS & TERMINALS

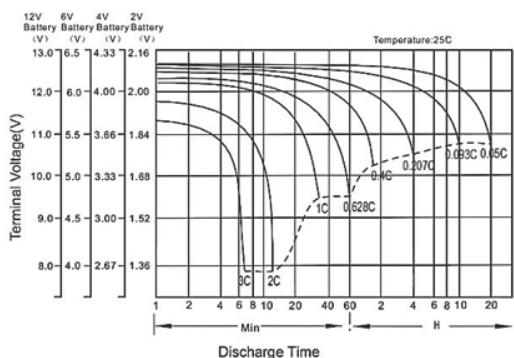


PERFORMANCE CHARACTERISTICS

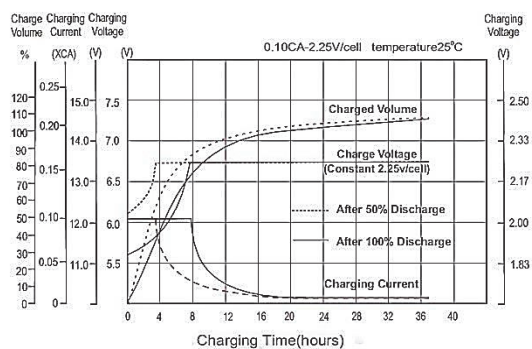
Constant Current (Amp.) and Constant Power (Watt) Discharge Table @25°C (77°F)

Cell Voltage Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
9.60V	A	64.80	42.50	31.50	20.70	10.80	6.30	4.64	3.72	3.16	2.08	1.70	0.93
	W	764.20	480.00	363.00	219.70	124.50	72.90	53.63	43.05	36.53	24.08	19.72	10.80
10.20V	A	59.40	40.60	28.90	19.70	10.14	6.04	4.50	3.60	3.10	2.05	1.67	0.91
	W	719.20	454.50	341.20	218.30	117.00	70.00	52.12	41.70	35.85	23.70	19.35	10.50
10.50V	A	54.10	38.00	27.00	19.00	9.81	5.93	4.42	3.42	3.06	2.03	1.66	0.90
	W	694.50	441.00	326.30	216.00	113.50	68.60	51.22	39.60	35.63	23.48	19.20	10.43
10.80V	A	52.00	36.30	25.20	18.50	9.48	5.77	4.35	3.36	2.93	1.97	1.61	0.88
	W	609.00	427.50	314.20	215.20	110.30	67.20	50.63	39.11	34.05	22.50	18.75	10.20
11.10V	A	48.00	34.20	23.40	18.00	9.15	5.63	4.13	3.30	2.80	1.92	1.58	0.86
	W	588.70	413.20	299.30	213.00	108.80	66.70	49.13	39.00	33.30	21.75	18.37	10.13

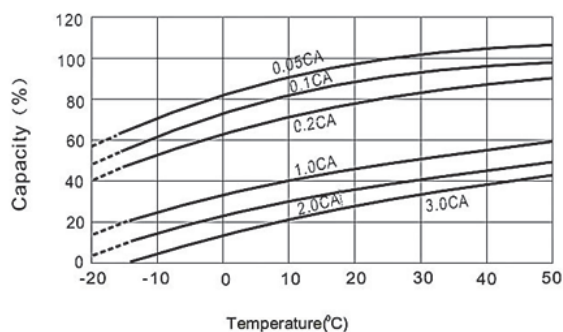
DISCHARGE CHARACTERISTICS



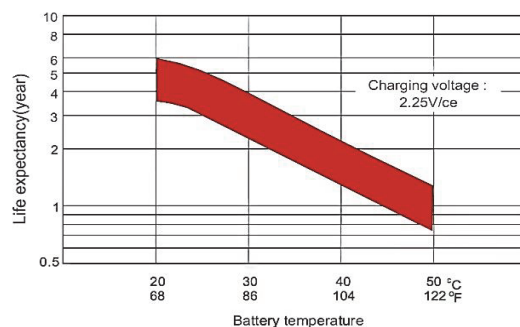
CHARGING CHARACTERISTICS (STANDBY)



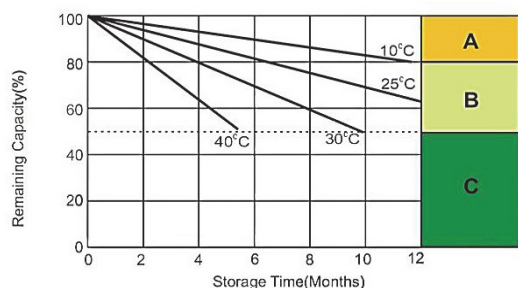
TEMP. EFFECTS IN RELATION TO BATTERY CAPACITY



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

