

General Series Battery

FM series batteries are Maple Armor brand universal lead-acid batteries. Using high-quality lead calcium multi-element alloy plates, with high rate discharge capacity; High performance cast welded grid, with conductivity 30% higher than ordinary batteries; Internally, it adopts integrated casting and welding, reducing internal resistance by 20% and better adapting to high current discharge; Unique AGM technology enables higher energy density and stronger charging acceptance of batteries; imported ABS raw materials and self-made shell, using self-developed automatic sealing technology, make the battery a complete whole, greatly improving sealing performance; Copper terminals (plug-in/vertical/downward rotation) not only meet the needs of high current charging and discharging, but also have flexible installation and more convenient maintenance. This series of batteries is manufactured using internationally advanced automated production lines, with high stability and consistency, and a longer service life. Design lifespan up to 5 years (25 °C)

Application

- * Emergency Power System
- * Communication equipment
- * Telecommunication systems
- * Uninterruptible power supplies
- * Electric toy car and wheelchairs, etc.

General Features

* Heavy Duty Grid

Specification

- * Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free
- * Long Life and low self-discharge design

- * Power tools
- * Alarm system
- * Marine equipment
- * Medical equipment
- * Fire and Security System

Construction

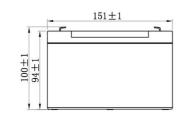
- * Positive Lead dioxide
- * Electrolyte Sulfuric acid
- * Separator Fiber glass
- * Negative ······ Lead
- * Safety Valve ····· EPDR
- * Terminal Copper

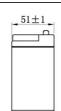
* Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)

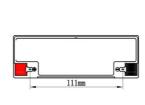


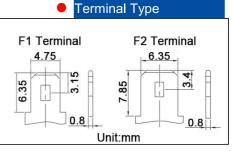
•	Conta	IIIGI ····· ADO(OL34-IID) /	7 I fame Netardant ADS (0L94-V0)							
Pattony Model	Nominal V	'oltage	6V (3 cells per unit)							
Battery Model	Rated capacity (2	20 Hour rate)	12Ah							
Dimension	Length	Width	Height	Total Height						
Dimension	151mm (5.94 inches)	51mm (2.00 inches)	94mm (3.70 inches)	100mm (3.94 inches)						
Approx Weight	1.67kg(3.68 lbs) ± 3%									
Internal Resistance	Full charged at 25 ℃(77 °F):Approx 7.75mΩ									
Maximum Charge Current	3.6A									
Max.discharge current	180A (5Sec.)									
Short-circuit current	430A									
Operating Temperature	Nominal Operating Temperature	Discharge	Charge	Storage						
Range	25℃(77 ℉)	-15℃~ 50℃(5℉~122℉)	-15℃~ 40℃(5℉~104℉)	-15℃~ 40℃(5℉~104℉)						
Capacity @ 25℃	20 hour rate(0.646A,10.5V)	10 hour rate(1.191A,10.5V)	5 hour rate(2.134A,10.5V)	1 hour rate(7.65A,9.6V)						
(77°F)	12.92Ah	11.91Ah	10.67Ah	7.65Ah						
Capacity affected by	40℃ (104℉)	25 ℃ (77℉)	0℃ (32°F)	-15℃ (5°F)						
Temp.(20HR)	102%	100%	85%	65%						
Charge method	Float Chargin	g Voltage	Equalization Charging Voltage							
Charge method	6.75 ~ 6.90 VDC/Ur	nit at 25℃(77℉)	7.20 ~ 7.50 VDC/Unit at 25°C(77°F)							

Outer dimension (mm)









Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25 ℃ (77 °F)

F.V/Time	е	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	Α	33.6	23.5	19.0	16.13	12.32	6.99	4.28	3.11	2.064	1.381	1.156	0.630
	W	62.6	44.3	36.1	30.76	23.65	13.57	8.42	6.13	4.088	2.745	2.312	1.263
1.80V/cell	Α	36.4	25.2	19.9	16.63	12.61	7.13	4.37	3.16	2.104	1.405	1.175	0.638
	W	67.3	47.2	37.6	31.56	24.15	13.81	8.57	6.22	4.158	2.786	2.341	1.276
1.75V/cell	Α	39.2	26.7	20.5	17.13	12.87	7.24	4.45	3.21	2.134	1.427	1.191	0.646
	W	72.1	49.9	38.5	32.36	24.60	14.03	8.72	6.31	4.208	2.823	2.368	1.289
1.70V/cell	Α	41.4	27.9	21.0	17.54	13.15	7.36	4.53	3.26	2.164	1.447	1.206	0.653
	W	75.7	51.6	39.4	33.07	25.04	14.23	8.87	6.40	4.248	2.858	2.392	1.301
1.67V/cell	Α	43.0	28.6	21.4	17.84	13.36	7.47	4.60	3.30	2.184	1.455	1.212	0.656
	W	78.0	52.6	40.0	33.47	25.27	14.37	8.96	6.46	4.279	2.871	2.400	1.305
1.60V/cell	Α	46.6	30.3	22.2	18.44	13.71	7.65	4.71	3.37	2.214	1.470	1.222	0.661
	W	83.9	55.1	41.1	34.37	25.85	14.62	9.13	6.56	4.329	2.891	2.416	1.311



