



6FM40G/12Volt 40Ah

⚡ Gel Series Battery

Gel series is specially designed for power supply under extreme weather condition. It can be designed with AGM or PVC separator, by using strong grids, high purity lead and patented Gel electrolyte, With 15-year design life, it has rapid charging acceptance and floating or cyclic endurance.



⚡ Application

- ☆ Emergency Power System
- ☆ Communication equipment
- ☆ Telecommunication systems
- ☆ Uninterruptible power supplies
- ☆ Electric toy car and wheelchairs, etc
- ☆ Power tools
- ☆ Alarm system
- ☆ Marine equipment
- ☆ Medical equipment
- ☆ Fire and Security System

⚡ General Features

- ☆ Heavy Duty Grid
- ☆ Mechanized assembly
- ☆ Non-spillable construction
- ☆ High Reliability and Stability
- ☆ Sealed and Maintenance-free
- ☆ Long Life and low self-discharge design

⚡ Construction

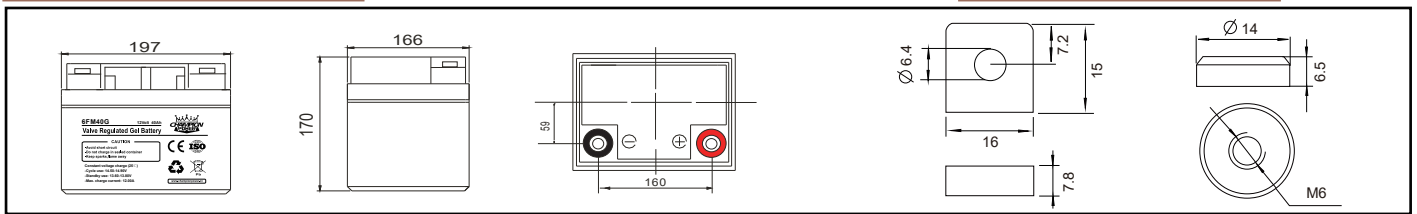
- ☆ Positive.....Lead dioxide
- ☆ Electrolyte.....Sulfuric acid
- ☆ Separator.....AGM or PVC
- ☆ Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆ Negative.....Lead
- ☆ Safety Valve.....EPDR
- ☆ Terminal.....Copper

⚡ Specification

Battery Model	Nominal Voltage	12V			
	Rated capacity (10Hour rate)	40Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	199mm	166mm	170mm	170mm	
Approx Weight	12.90Kg				
Internal Resistance	Full charged at 25°C (77°F): Approx 9.5mΩ				
Max. discharge current	320A(5s)				
Floating design life @ 25°C (77°F)	10 years				
Capacity @ 25°C (77°F)	10Hour rate(4A/10.8V)	5Hour rate(6.8A/10.8V)	3Hour rate(10A/10.8V)	1Hour rate(22A/10.5V)	
	40Ah	34Ah	30Ah	22Ah	
Capacity affected by Temp(10 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)	
	102%	100%	85%	65%	
Self Discharge @ 25°C (77°F)	After 3 months storage	After 6 months storage	After 12 months storage		
	91%	82%	64%		
Charge method @ 25°C (77°F)	Cycle Use	14.5-14.9V (Initial charging current less than 12A)			
	Float Use	13.6-13.8V			

⚡ Outer dimension (mm)

⚡ Terminal Type (mm)



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

F.V / TIME		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	144.00	88.00	70.00	46.00	24.00	14.00	10.40	8.40	7.02	4.63	4.40	2.28
	W	1526.40	934.56	749.00	496.80	261.60	152.60	114.40	92.40	77.18	51.43	48.84	25.65
10.20V	A	132.00	88.33	64.33	43.67	24.80	13.43	10.20	8.00	6.88	4.56	4.20	2.24
	W	1438.80	980.50	717.32	491.25	279.00	151.80	115.26	90.80	78.13	51.76	47.67	25.42
10.50V	A	122.42	84.40	60.00	42.33	24.00	13.17	10.00	7.60	6.80	4.50	4.12	2.21
	W	1346.58	949.50	678.00	482.60	273.60	150.76	114.50	87.40	78.20	51.75	47.38	25.44
10.80V	A	111.47	80.67	56.00	40.40	23.20	12.83	9.80	7.47	6.50	4.38	4.00	2.18
	W	1226.13	919.60	641.20	466.62	267.96	148.22	113.68	86.99	75.73	51.07	46.60	25.44
11.10V	A	96.40	76.00	52.00	37.60	22.00	12.50	9.40	7.33	6.22	4.27	3.90	2.16
	W	1089.32	877.80	603.20	439.92	257.40	146.25	110.45	86.53	73.36	50.35	46.02	25.49

Note: The above datas are average values. (Edition 2017-11)



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