

# 6-FM-100

## Product Image



## Product Dimensions



## Performance Characteristics

Rated Voltage	12V
Number of cells	6 Cells
Designed Life	5-8 Years
Rated Capacity at 25°C (77°F)	10hr rate(0.1C,10.8V) 100Ah
	3hr rate(0.25C,10.8V) 76.8Ah
	1hr rate(0.55C,10.5V) 55.2Ah
Capacity affected by Temperature(10 hour rate)	40°C(104°F) 103%
	25°C(77°F) 100%
	0°C(32°F) 85%
	-15°C(5°F) 65%
Charge Method:constant-voltage charging at 25°C(77°F)	Cyclic use 14.4-14.9V
	Maximum charging current 25A
	Temperature Compensation -30mV/°C
	Float Use 13.6-13.8V
Self-Discharge 25°C(77°F) Capacity	Temperature Compensation -20mV/°C
	after 3 month storage 91%
	after 6 month storage 82%
	after 12 month storage 64%

Environment Temperature Requirements	Discharge Temperature	-15-50°C
	Charge Temperature	0-40°C
	Storage Temperature	-15-40°C
Inner Resistance&Max. Discharge Current	A fully charged battery at 25°C(77°F)	4.5mΩ
	Max. Discharge Current	1500A(5s)
	Short Circuit Current	5000A
Dimension and weight	Length	330mm
	Width	173mm
	Height	217mm
	Total Height	222mm
	Reference Weight	29.2kg
General Feature	Maintenance free	
	Convenient for installation	
	Safety and no leakage	
	Excellent recharge and discharge performance	
	Adapt to high or low temperature	
	Good deep discharge performance	
	Longer cycle life	

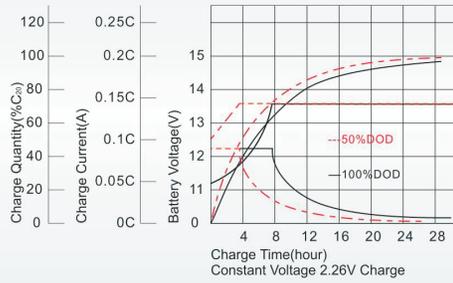
## Constant-current discharge parameter Unit: A (25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	229.8	171.9	138.2	113.1	89.8	67.0	52.8	25.6	16.8	10.0	5.20
1.75V/cell	259.0	188.9	151.0	121.7	93.2	69.4	55.2	26.0	17.2	10.1	5.26
1.70V/cell	285.2	205.9	161.2	127.9	97.0	72.2	57.0	26.8	17.7	10.2	5.36
1.65V/cell	314.6	222.2	171.4	135.9	102.3	74.1	58.9	27.9	18.1	10.4	5.42
1.60V/cell	346.9	241.2	183.3	144.8	108.0	77.2	61.0	28.8	18.8	10.5	5.46

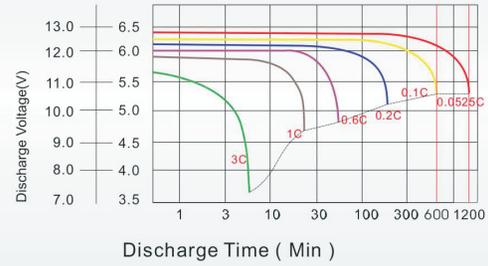
## Constant-current discharge parameter Unit: W (25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	415.6	313.9	254.6	210.1	168.4	127.7	101.3	49.6	32.8	19.8	10.29
1.75V/cell	458.6	339.3	274.6	223.9	173.4	131.2	105.6	50.2	33.6	19.9	10.37
1.70V/cell	491.0	361.4	289.1	233.6	179.6	136.0	108.4	51.6	34.3	20.1	10.57
1.65V/cell	533.8	386.6	305.0	246.2	187.9	138.1	111.3	53.4	35.1	20.4	10.69
1.60V/cell	575.1	410.1	320.8	259.4	196.9	143.2	114.7	54.9	36.1	20.7	10.73

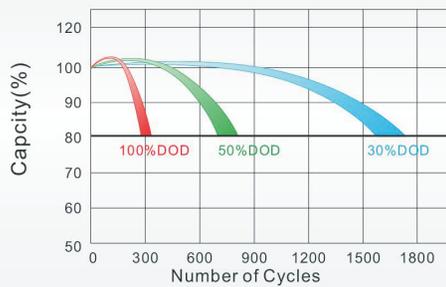
Charge Characteristics for Float Use @ 25°C/77°F



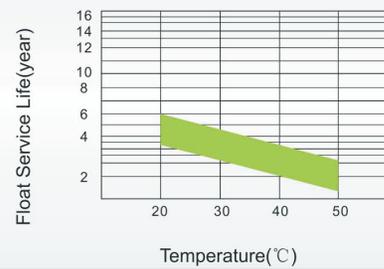
Discharge Characteristics at Various Rates @ 25°C/77°F



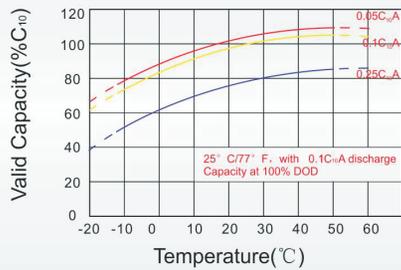
Cycle Life in Relation to Depth of Discharge



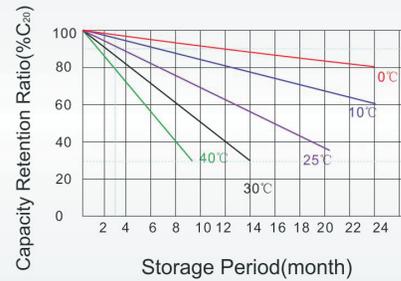
Float Service Life



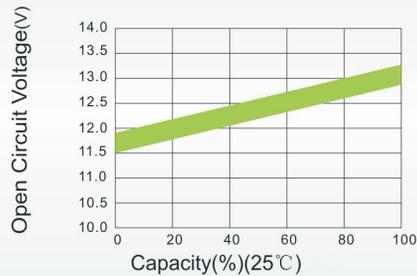
Temperature and Valid Capacity



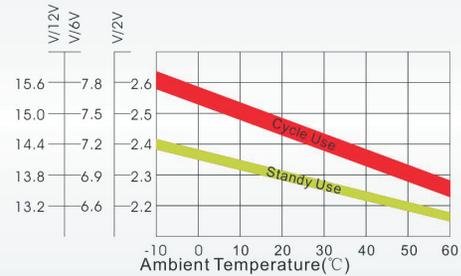
Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature



## Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	AGM glass	Sulfuric acid



Add:#1003 NO.498 XingLinWan Road, JiMei District XiaMen China

Tel: +86 592-7208868 +86 13225963563

Email:sales1@eitaichina.com

Website:https://eitai.en.alibaba.com