



# 6-FM-100J

## Gel Battery Series

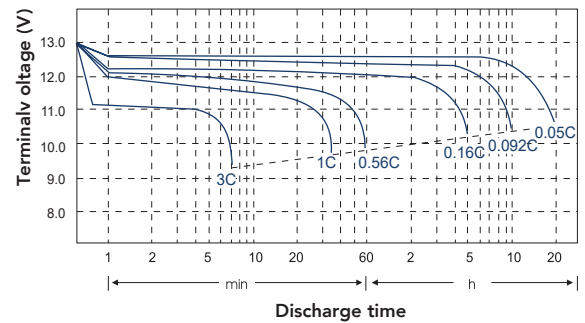
### Specifications

Nominal Voltage	12V
Rated Capacity (20 hour rate)	100Ah
Total Height (with terminals)	8.62 inches(219mm)
Height	8.35 inches(212mm)
Length	15.98 inches(406mm)
Width	6.81 inches(173mm)
Weight	Approx.67.8 Pound(30.8kg)

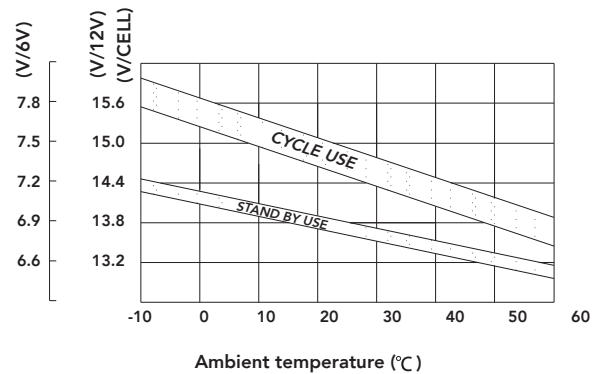
### Characteristics

Capacity 25°C	20 hour rate (5.0A)	100 Ah
	10 hour rate (9.20A)	92 Ah
	5 hour rate (16.0A)	80 Ah
	1 hour rate (60.0A)	60 Ah
	15 Minute Rate (164A)	41 Ah
Internal Resistance	Full charged Battery 25°C	4.5 M
Capacity affected by Temperature (20hour rate)	40°C	102%
	25 °C	100%
	0°C	85%
	-15°C	65%
Self-Discharge 25°C	Capacity after 3 month storage	91%
	Capacity after 6 month storage	81%
	Capacity after 12 month storage	60%
Max. Discharge Current 25°C	800A(5S)	
Terminal	M3	
Charge (Constant Voltage) Float	Cycle	Initial Charging Current less than 30A
		Voltage 14.4~14.7 V 25°C
		Voltage 13.5~13.8V 25°C

### Discharge Curves 25



### Relationship between charge voltage and temperature



### Constant Current Discharge (AMPERES @25°C)

F.V/Time	5Min	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	10Hour	24Hour
1.65	311	217	168	102	80.1	54.2	37.8	37.8	17.5	9.80	4.33
1.70	285	205	157	86.8	75.7	51.9	36.9	25.0	16.9	9.59	4.25
1.80	227	173	137	78.4	71.5	49.4	35.3	23.6	16.0	9.20	4.18

### Constant Power Discharge (WATTS PER CELL@25°C)

Cut off Voltage V/Cell	5Min	10Min	15Min	30Min	45Min	1Hr	2Hr	3Hr	5Hr	10Hr	24Hr
1.60	571	394	307	191	148	119	70.0	49.1	32.4	18.3	8.11
1.65	542	389	304	185	146	115	69.1	49.0	32.2	18.2	8.10
1.67	540	386	302	173	144	114	68.8	48.6	31.9	18.2	8.09
1.70	506	379	291	162	142	111	68.4	47.7	31.6	18.1	8.07
1.75	461	346	274	156	141	108	67.9	46.4	31.0	18.0	8.06
1.80	423	330	264	151	138	107	66.6	46.1	30.5	17.7	8.04
1.85	339	273	231	141	127	104	64.2	45.0	29.5	16.9	7.62