



JFG Series AGM-GEL battery

JFG12-100

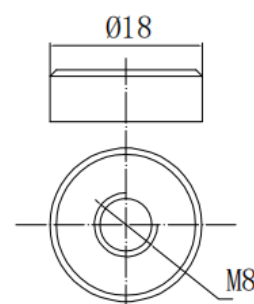
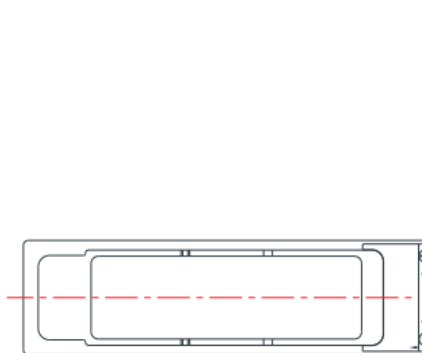
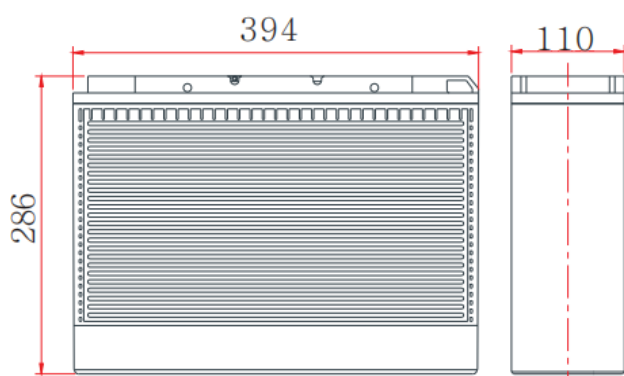
General Features

- Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- Long cycle life, excellent deep cycle discharge ability
- Excellent charge acceptance ability
- Precision sealing technology
- Long life



Dimension: 394(L) × 110(W) × 286(H) × 286(TH) / (±2mm)

Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V
Nominal Capacity	100Ah@10hour-rate to 1.80V per cell @25°C
Design life	15 years
Terminal	M8
Approx. Weight	Approx 31.0kg ± 3% (68.3 ± 3% lbs)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
short-circuit current	1714A
Internal resistance (Full charged at 25°C:)	7.0 mΩ
Self discharge	3% of capacity declined per month at 25°C

Operating Temperature

Discharge:	-20 ~ 50°C (-4 ~ 122°F)
Charge :	-20 ~ 50°C (-4 ~ 122°F)
Storage:	-20 ~ 50°C (-4 ~ 122°F)

Charge Method (25 °C)

Charge current:	Max. 25A; Recom. 10.0A
Float charge: 13.5-13.8V	recom. 13.8V (-18mV/°C)
Equalize charge: 13.8-14.1V	recom. 14.1V (-24mV/°C)
Cycle charge: 14.4-15.0V	recom. 14.7V (-30mV/°C)

Standards

Executive standard: IEC 60896-21/22, GB/T 19638.1-2014

Applications

- UPS/EPS
- Power systems
- Telecom outdoor integration site
- Emergency lighting, Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

Rated Capacity

10Hour Rate (10.0A to 10.8V)	100.0Ah
3Hour Rate (26.6A to 10.2V)	79.8Ah
1Hour Rate (63.2A to 9.6V)	63.2Ah

Attain Certificate



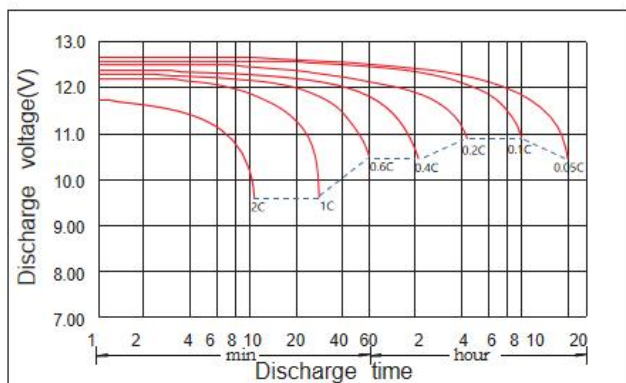
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



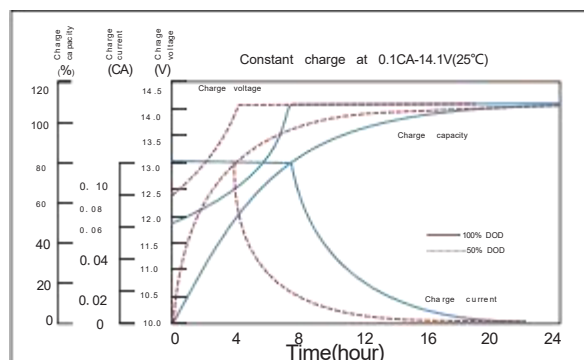
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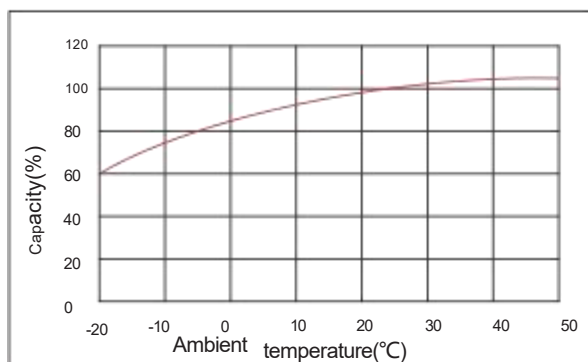
Discharge characteristic



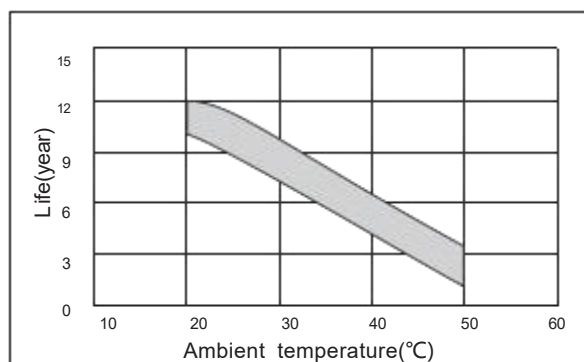
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float life



Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	179.9	107.9	80.2	63.2	47.0	37.5	28.2	22.7	19.3	16.4	12.7	10.5	5.52
1.65V	172.8	103.6	77.0	60.8	45.6	36.7	27.3	22.0	18.8	16.2	12.5	10.4	5.43
1.70V	161.9	99.0	73.6	58.2	43.8	35.1	26.6	21.5	18.3	15.9	12.3	10.3	5.38
1.75V	150.6	93.7	70.3	56.4	42.0	33.9	25.8	21.0	17.9	15.5	12.2	10.1	5.35
1.80V	141.9	91.1	67.8	54.0	40.0	32.8	25.5	20.4	17.4	15.0	12.0	10.0	5.30
1.85V	117.7	77.1	59.2	47.4	36.2	29.1	22.4	18.5	15.9	13.7	11.2	9.22	5.08

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	316.0	195.9	145.9	115.8	87.0	69.0	53.2	42.6	36.4	31.6	24.8	20.7	10.9
1.65V	306.6	190.1	141.2	112.5	84.8	67.8	52.4	41.6	35.6	31.3	24.5	20.5	10.7
1.70V	291.5	183.5	139.5	109.6	83.6	65.6	50.2	40.6	34.8	30.6	24.2	20.2	10.6
1.75V	275.2	177.2	133.8	107.2	81.2	63.9	49.9	39.7	34.0	29.9	23.9	20.0	10.6
1.80V	260.3	171.1	128.7	102.8	77.0	62.8	48.6	39.3	33.2	29.4	23.6	19.8	10.5
1.85V	216.9	148.8	114.4	91.9	71.6	57.5	43.6	36.1	31.1	26.9	22.2	18.6	9.87