

JFG Series AGM-GEL battery

JFG12-55

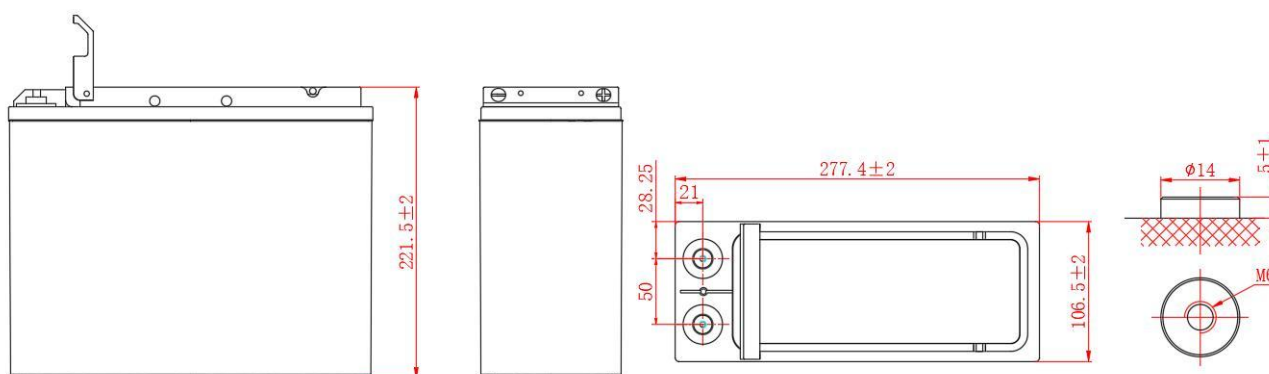
General Features

- ▶ 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:277.4(L)×106.5(W) ×221.5(H)×221.5(TH)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	50Ah
Design life	15 years
Terminal	M6
Approx. Weight	Approx17.0kg (37.5lbs)
Container Material	ABS
short-circuit current	1333A
Internal resistance(Full charged at 25°C:)	9.0 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. 12.5A;Recom.5.0A
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 YD/T 799-2010

Applications

- ▶UPS/EPS
- ▶Power systems
- ▶Telecommunications system
- ▶Emergency lighting、Auto control system
- ▶Solar/wind generating storage cyclic
- ▶Other general purpose

Rated Capacity

10Hour Rate (5.00A to 10.8V)	50.0Ah
3Hour Rate (13.1A to 10.2V)	39.3Ah
1Hour Rate (30.1A to 9.6V)	30.1Ah

Attain Certificate



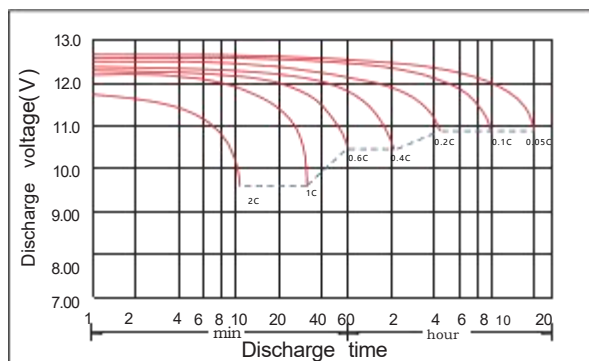
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



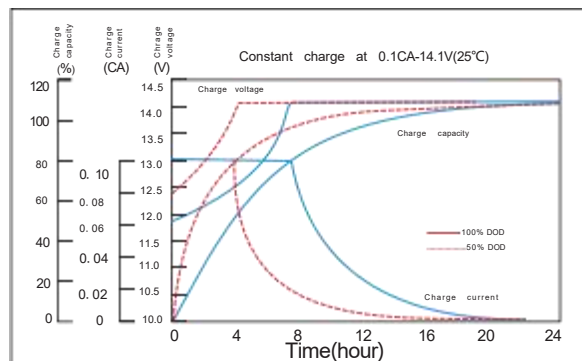
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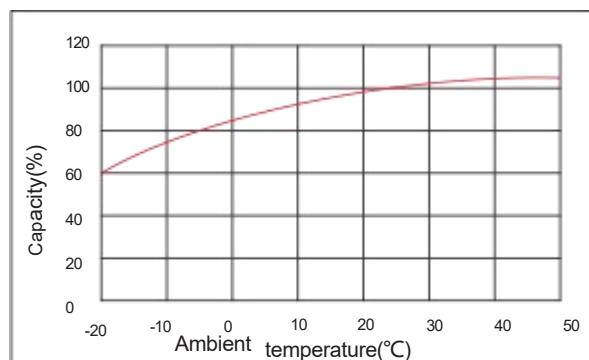
Discharge characteristic



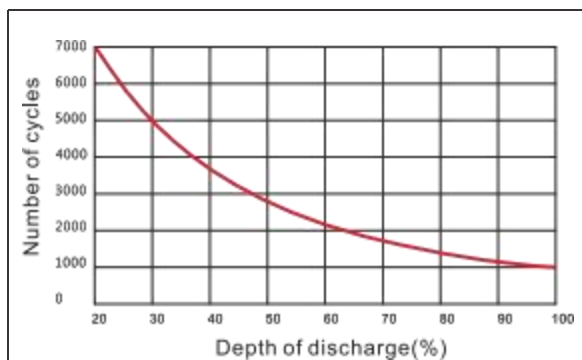
Charging characteristic



The effect of temperature on capacity



The effect of discharge depth on cycle 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	90.0	53.9	40.1	31.6	23.5	18.7	14.1	11.4	10.6	8.2	6.34	5.27	3.03
1.65V	86.4	51.8	38.5	30.4	22.8	18.3	13.7	11.0	10.3	8.1	6.27	5.21	2.98
1.70V	80.9	49.5	36.8	29.1	21.9	17.6	13.3	10.8	10.1	7.9	6.17	5.13	2.95
1.75V	75.3	46.8	35.2	28.2	21.0	16.9	12.9	10.5	9.8	7.7	6.09	5.06	2.94
1.80V	70.9	45.6	33.9	27.0	20.0	16.4	12.8	10.2	9.5	7.5	5.98	5.00	2.91
1.85V	58.9	38.5	29.6	23.7	18.1	14.5	11.2	9.2	8.7	6.84	5.62	4.61	2.79

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	158.0	98.0	72.9	57.9	43.5	34.5	26.6	21.3	18.2	15.8	12.38	10.37	5.43
1.65V	153.3	95.0	70.6	56.3	42.4	33.9	26.2	20.8	17.8	15.6	12.27	10.26	5.35
1.70V	145.7	91.7	69.8	54.8	41.8	32.8	25.1	20.3	17.4	15.3	12.11	10.12	5.30
1.75V	137.6	88.6	66.9	53.6	40.6	31.9	25.0	19.8	17.0	15.0	11.96	9.99	5.28
1.80V	130.1	85.5	64.4	51.4	38.5	31.4	24.3	19.6	16.6	14.7	11.78	9.88	5.24
1.85V	108.4	74.4	57.2	45.9	35.8	28.7	21.8	18.1	15.5	13.45	11.09	9.31	4.94