



JF Series lead-acid battery JF12-50(QE)

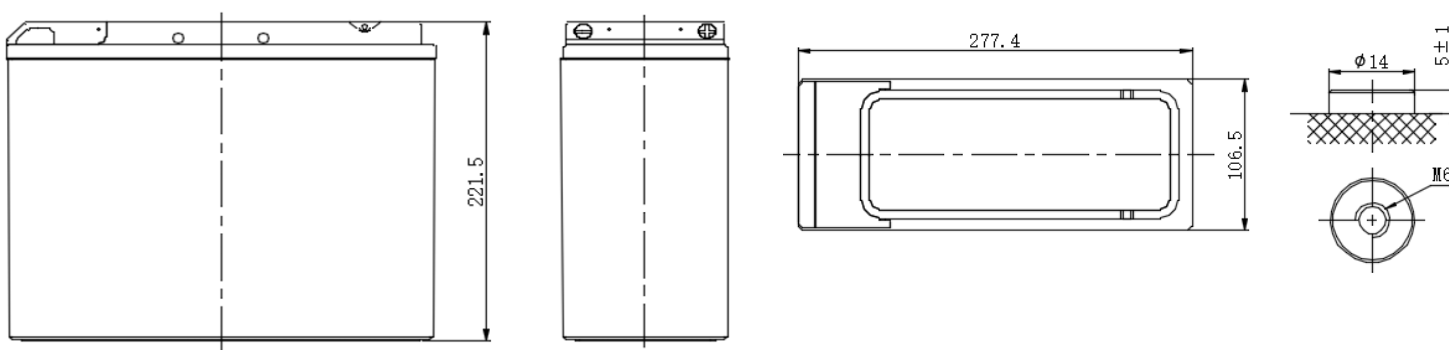
General Features

- Narrow structure and front terminal design, suitable for 19-inch and 23-inch standard cabinets
- High corrosion resistant performance: Pb-Ca multi-alloy grid
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long life



Dimension: 277(L) × 106(W) × 222(H) × 222(TH) / (±3mm)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	50Ah@10hour-rate to 1.80V per cell @25°C
Design life	12 years
Terminal	M6
Approx. Weight	Approx 16.0kg±3% (35.27lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	1333.3A
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: 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 (5.00A to 10.8V)	50.0Ah
3Hour Rate (13.3A to 10.2V)	39.9Ah
1Hour Rate (31.6A to 9.6V)	31.6Ah

Attain Certificate

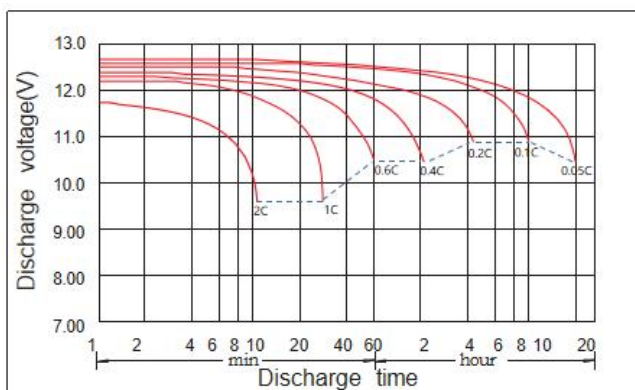


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

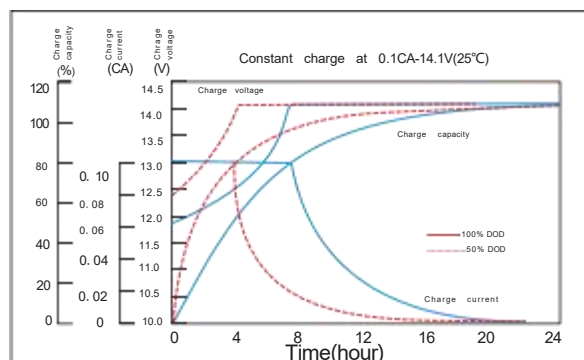


JF Series lead-acid battery JF12-50(QE)

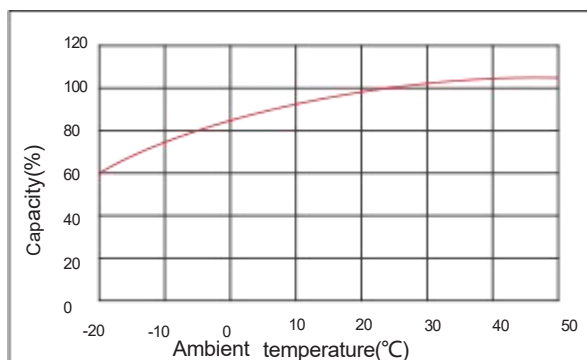
Discharge characteristic



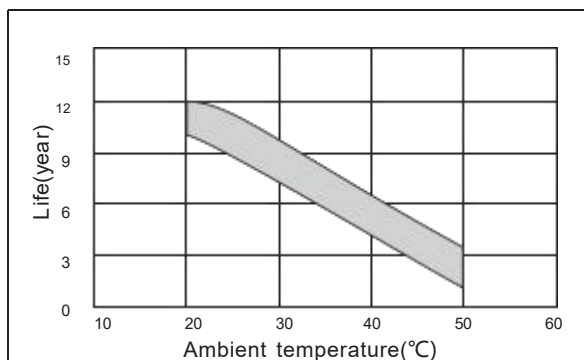
Charging characteristic



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	89.1	53.4	39.7	31.6	23.5	18.7	14.1	11.4	9.7	8.2	6.34	5.27	2.76
1.65V	85.5	51.3	38.1	30.4	22.8	18.3	13.7	11.0	9.4	8.1	6.27	5.21	2.72
1.70V	80.1	49.0	36.4	29.1	21.9	17.6	13.3	10.8	9.2	7.9	6.17	5.13	2.69
1.75V	74.6	46.4	34.8	28.2	21.0	16.9	12.9	10.5	8.9	7.7	6.09	5.06	2.68
1.80V	70.2	45.1	33.6	27.0	20.0	16.4	12.8	10.2	8.7	7.5	5.98	5.00	2.65
1.85V	58.3	38.2	29.3	23.7	18.1	14.5	11.2	9.2	7.9	6.84	5.62	4.61	2.54

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	156.4	97.0	72.2	57.9	43.5	34.5	26.6	21.3	18.2	15.8	12.38	10.37	5.43
1.65V	151.8	94.1	69.9	56.3	42.4	33.9	26.2	20.8	17.8	15.6	12.27	10.26	5.35
1.70V	144.3	90.8	69.1	54.8	41.8	32.8	25.1	20.3	17.4	15.3	12.11	10.12	5.30
1.75V	136.2	87.7	66.2	53.6	40.6	31.9	25.0	19.8	17.0	15.0	11.96	9.99	5.28
1.80V	128.8	84.7	63.7	51.4	38.5	31.4	24.3	19.6	16.6	14.7	11.78	9.88	5.24
1.85V	107.3	73.7	56.6	45.9	35.8	28.7	21.8	18.1	15.5	13.45	11.09	9.31	4.94