



JF Series Front Terminal Battery JF12-90(QB)

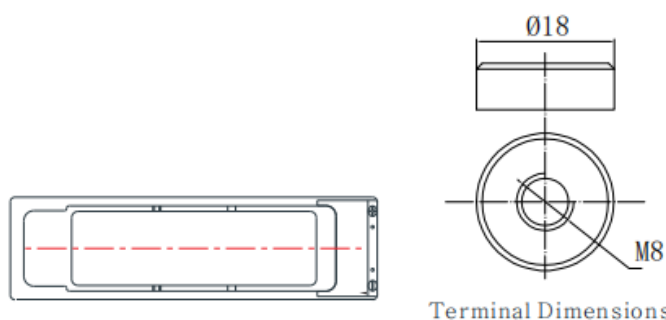
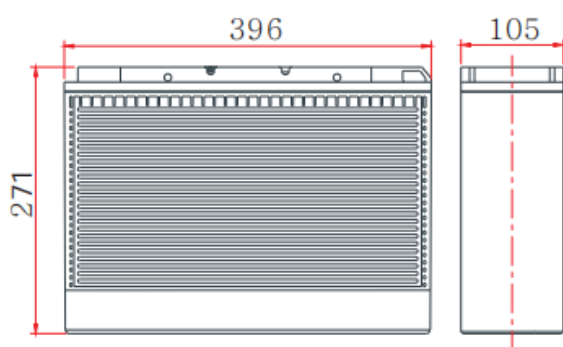
General Features

- 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: 396(L) × 105(W) × 271(H) × 271(TH) / (± 3mm)

Unit: mm



Terminal Dimensions

Specification	
Nominal Voltage	12V
Nominal Capacity	90Ah@10hour-rate to 1.80V per cell @25°C
Design life	12 years
Terminal	M8
Approx. Weight	Approx 27.5 ± 3%kg (60.6 ± 3%lbs)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	2000A
Internal resistance(Full charged at 25°C:)	6.0 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 (2 5 ° C)	
Charge current:	Max. 22.5A; Recom. 9.0A
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

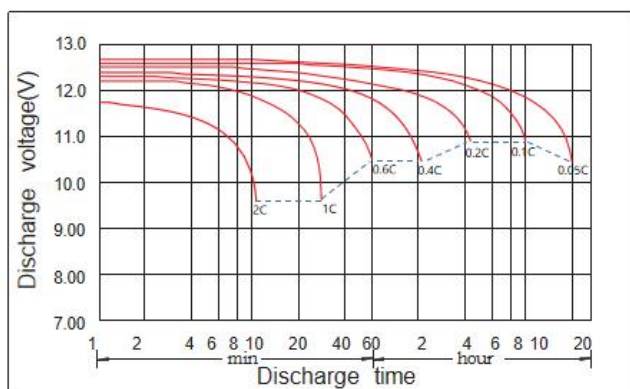
10Hour Rate (9.00A to 10.8V)	90.0Ah
3Hour Rate (23.9A to 10.2V)	71.7Ah
1Hour Rate (56.9A to 9.6V)	56.9Ah

Attain Certificate

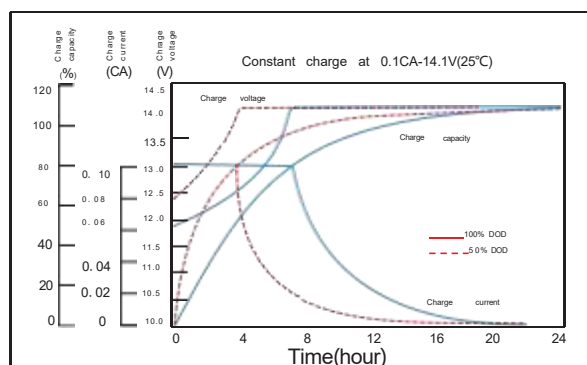


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

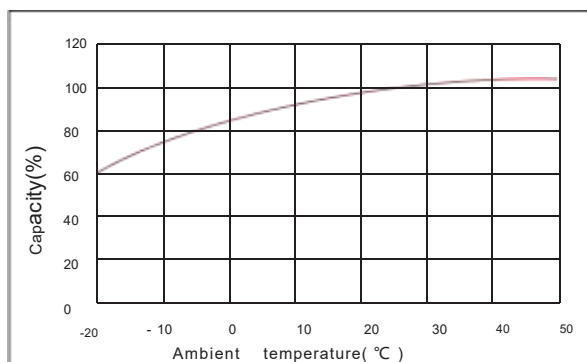
Discharge characteristic



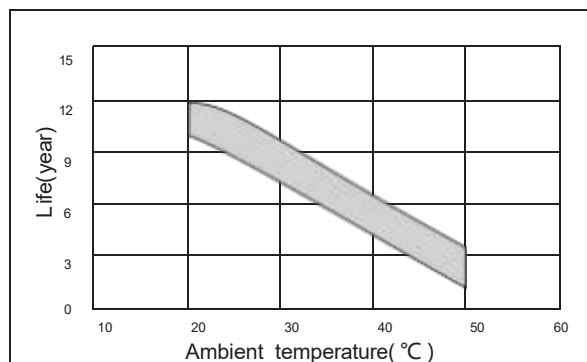
Charging characteristic



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	162.9	97.6	72.4	56.9	42.3	33.7	25.4	20.5	17.4	14.8	11.4	9.49	4.97
1.65V	156.5	93.7	69.5	54.7	41.0	33.0	24.6	19.8	17.0	14.6	11.3	9.38	4.89
1.70V	146.6	89.5	66.4	52.4	39.4	31.6	23.9	19.4	16.5	14.3	11.1	9.24	4.84
1.75V	136.4	84.7	63.5	50.8	37.8	30.5	23.2	18.9	16.1	13.9	11.0	9.12	4.82
1.80V	128.5	82.4	61.2	48.6	36.0	29.5	23.0	18.3	15.7	13.5	10.8	9.00	4.77
1.85V	106.6	69.7	53.4	42.7	32.5	26.2	20.2	16.6	14.3	12.3	10.1	8.30	4.57

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	286.1	177.2	131.7	104.2	78.3	62.1	47.9	38.3	32.7	28.4	22.3	18.7	9.78
1.65V	277.6	171.9	127.5	101.3	76.3	61.0	47.2	37.4	32.0	28.1	22.1	18.5	9.64
1.70V	263.9	166.0	125.9	98.6	75.2	59.1	45.2	36.5	31.3	27.6	21.8	18.2	9.53
1.75V	249.1	160.3	120.7	96.5	73.1	57.5	44.9	35.7	30.6	26.9	21.5	18.0	9.50
1.80V	235.6	154.7	116.2	92.5	69.3	56.6	43.7	35.3	29.9	26.5	21.2	17.8	9.44
1.85V	196.3	134.6	103.2	82.7	64.4	51.7	39.2	32.5	28.0	24.2	20.0	16.8	8.89