



JF Series lead-acid battery JF12-140(QN)

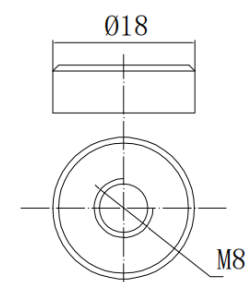
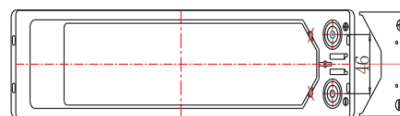
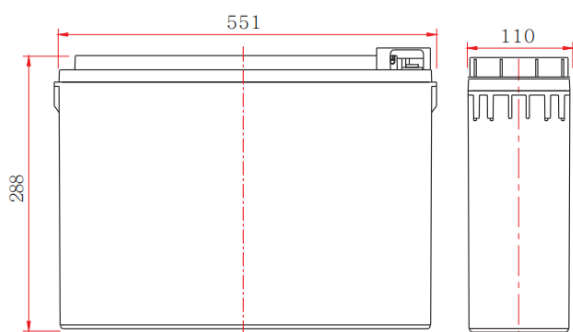
General Features

- 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: 551(L) × 110(W) × 288(H) × 288(TH) / (±3mm)

Unit: mm



Terminal Dimensions

Specification	
Nominal Voltage	12V
Nominal Capacity	140Ah@10hour-rate to 1.80V per cell @25°C
Design life	12 years
Terminal	M8
Approx. Weight	Approx. 42.5 ± 3% kg (93.7 ± 3% lbs)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
short-circuit current	2142A
Internal resistance (Full charged at 25°C:)	5.6 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. 35.0A; Recom. 14.0A
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

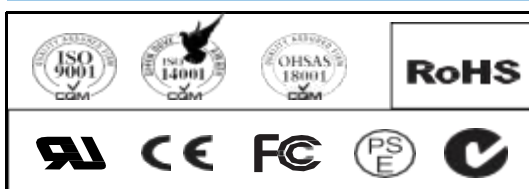
Applications

- 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 (14.0A to 10.8V)	140.0Ah
3Hour Rate (37.2A to 10.2V)	111.6Ah
1Hour Rate (88.5A to 9.6V)	88.5Ah

Attain Certificate

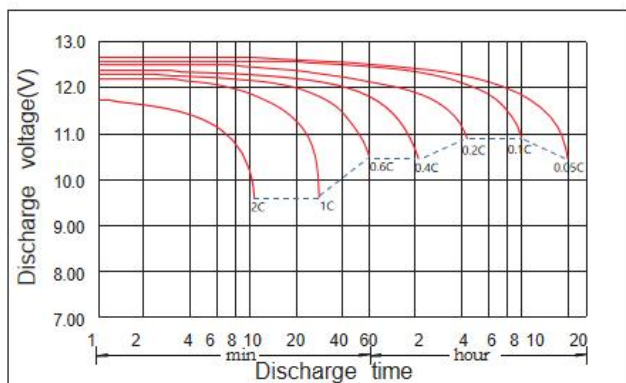


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

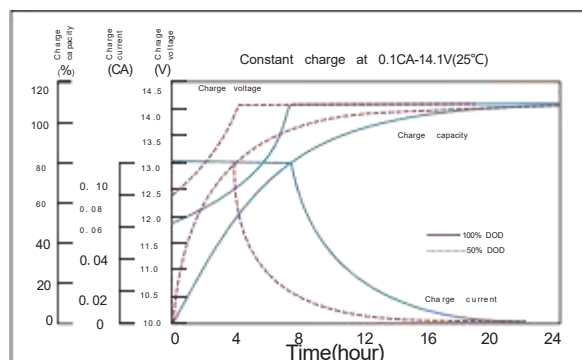


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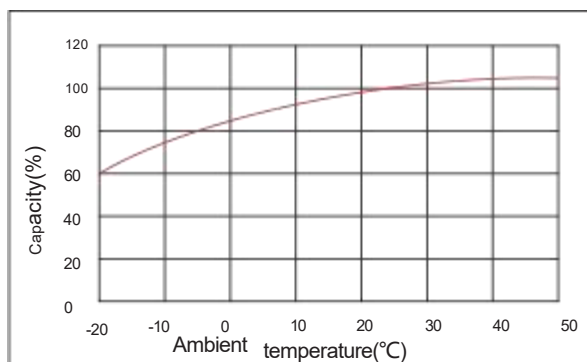
Discharge characteristic



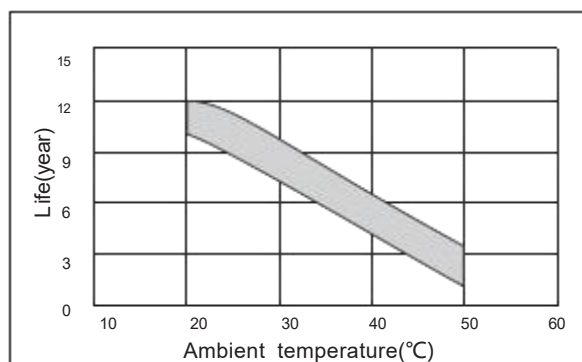
Charging characteristic



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	239.3	146.5	111.1	88.5	65.8	52.5	39.5	31.8	27.1	23.0	17.8	14.8	7.73
1.65V	229.9	140.6	106.7	85.1	63.8	51.3	38.3	30.8	26.4	22.7	17.6	14.6	7.60
1.70V	215.3	134.4	102.0	81.5	61.3	49.1	37.2	30.1	25.7	22.2	17.3	14.4	7.53
1.75V	200.3	127.2	97.4	79.0	58.8	47.4	36.1	29.3	25.0	21.6	17.0	14.2	7.49
1.80V	188.7	123.7	94.0	75.5	56.0	45.9	35.7	28.5	24.4	21.0	16.8	14.0	7.42
1.85V	156.6	104.7	82.0	66.4	50.6	40.7	31.4	25.8	22.2	19.2	15.7	12.9	7.11

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	420.3	266.1	202.2	162.1	121.8	96.6	74.5	59.6	50.9	44.2	34.7	29.0	15.2
1.65V	407.8	258.1	195.7	157.5	118.7	94.9	73.4	58.2	49.8	43.8	34.3	28.7	15.0
1.70V	387.6	249.2	193.4	153.4	117.0	91.9	70.3	56.8	48.7	42.9	33.9	28.3	14.8
1.75V	366.0	240.6	185.4	150.1	113.7	89.4	69.9	55.6	47.6	41.9	33.5	28.0	14.8
1.80V	346.1	232.3	178.4	143.9	107.9	88.0	68.0	55.0	46.5	41.2	33.0	27.7	14.7
1.85V	288.4	202.1	158.5	128.6	100.2	80.5	61.0	50.5	43.5	37.7	31.0	26.1	13.8