



JM Series lead-acid battery JM12-100(ELN)

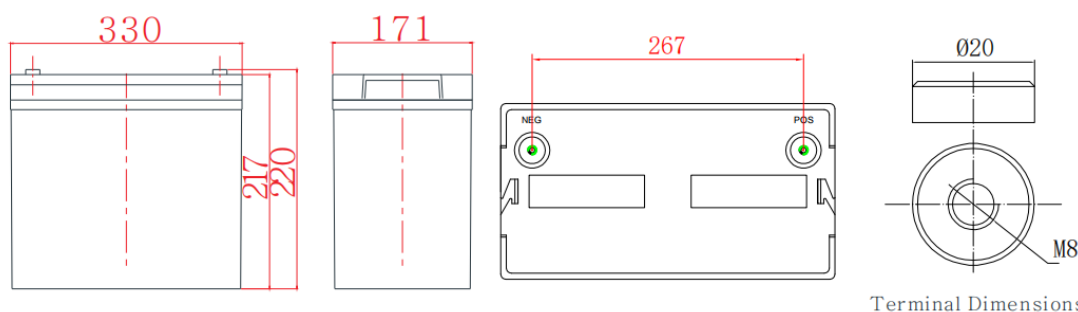
General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized capability of instant high-current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long life



Dimension:330(L)×171(W)×217(H)×220(TH)/(±3)

Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V
Nominal Capacity	100Ah@20hour-rate to 1.75V per cell @25°C
Design life	10 years
Terminal	M8
Approx. Weight	Approx24.5kg±3% (54.01lbs±3%)
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(25 °C)

Charge current:	Max. 25A;Recom.10A
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

Applications

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

Rated Capacity

20Hour Rate (5.0A to 10.5V)	100Ah
3Hour Rate (24.8A to 10.2V)	74.4Ah
1Hour Rate (57.3A to 9.6V)	57.3Ah

Attain Certificate

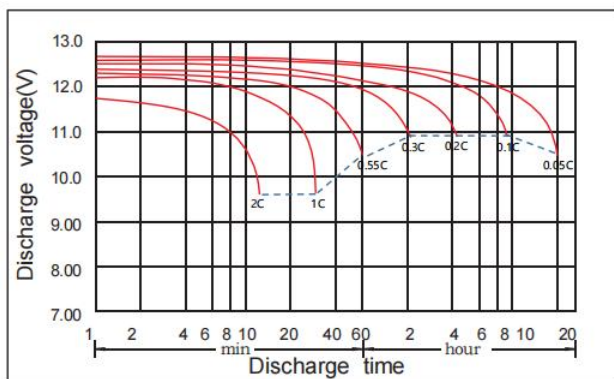


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

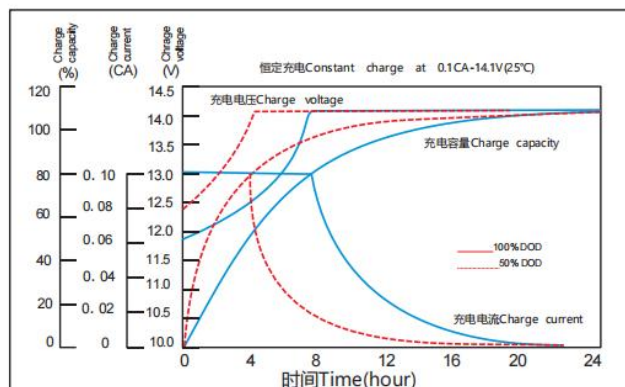


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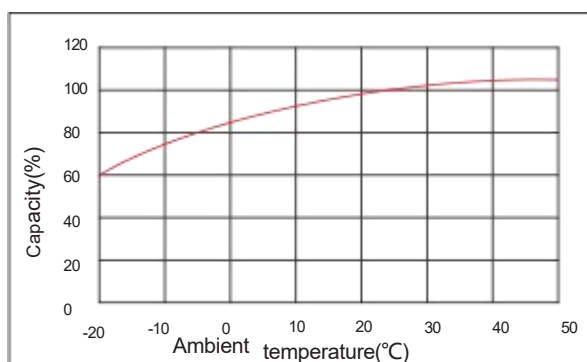
Discharge characteristic



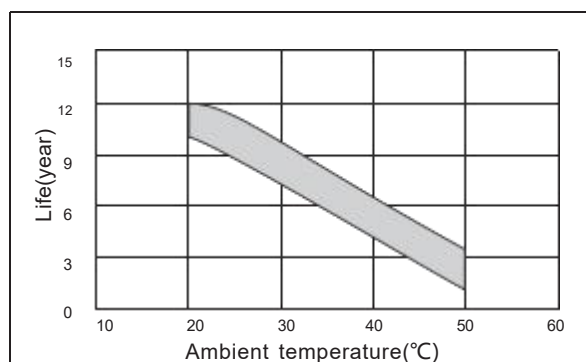
Charging characteristic



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	163.8	98.2	72.3	57.3	42.8	34.3	26.3	21.2	18.1	15.4	11.8	9.86	5.16
1.65V	157.3	94.3	69.4	55.1	41.5	33.6	25.5	20.6	17.6	15.1	11.7	9.74	5.07
1.70V	147.3	90.1	66.3	52.8	39.9	32.1	24.8	20.1	17.1	14.8	11.5	9.59	5.03
1.75V	137.1	85.3	63.4	51.1	38.2	31.0	24.1	19.6	16.7	14.4	11.4	9.46	5.00
1.80V	129.1	82.9	61.1	48.9	36.4	30.0	23.8	19.0	16.3	14.0	11.2	9.34	4.95
1.85V	107.2	70.2	53.3	43.0	32.9	26.6	20.9	17.2	14.8	12.8	10.5	8.62	4.75

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	287.7	178.4	131.5	104.9	79.2	63.2	49.7	39.8	34	29.5	23.1	19.4	10.2
1.65V	279.1	173.1	127.3	102	77.2	62.1	49	38.8	33.2	29.2	22.9	19.2	10
1.70V	265.3	167.1	125.8	99.3	76.1	60.1	46.9	37.9	32.5	28.6	22.6	18.9	9.9
1.75V	250.5	161.3	120.6	97.2	74	58.5	46.6	37.1	31.8	28	22.3	18.7	9.86
1.80V	236.9	155.7	116	93.2	70.2	57.5	45.4	36.7	31	27.5	22	18.5	9.8
1.85V	197.4	135.5	103.1	83.2	65.2	52.6	40.7	33.7	29	25.1	20.7	17.4	9.22