



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

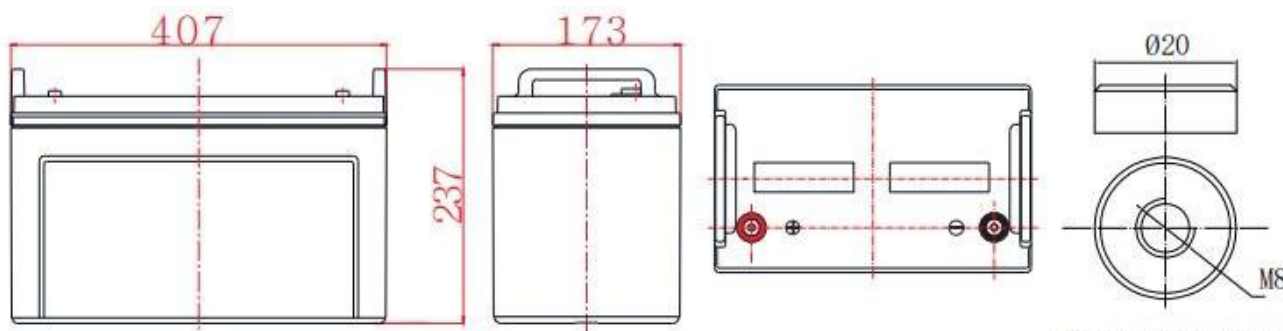
General Features

- ▶ 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: 407(L)×173(W)×237(H)×237(TH)

Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V
Nominal Capacity	100Ah@10hour-rate to 1.80V per cell @25°C
Design life	10 years
Terminal	M8
Approx. Weight	Approx 32.5kg±3% (71.7lbs±3%)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
short-circuit current	2307A
Internal resistance(Full charged at 25°C:)	5.2 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,
GB/T 19638.1-2014

Applications

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

Rated Capacity

10Hour Rate (10.0A to 10.8V)	100.0Ah
3Hour Rate (26.6A to 10.2V)	79.8Ah
1Hour Rate (63.6A to 9.6V)	63.6Ah

Attain Certificate

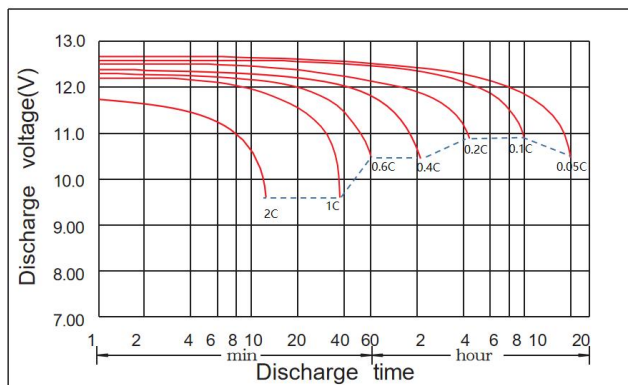
ISO 9001 CGM	ISO 14001 CGM	OHSAS 18001 CGM	RoHS
UL	CE	FC	PS E

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.

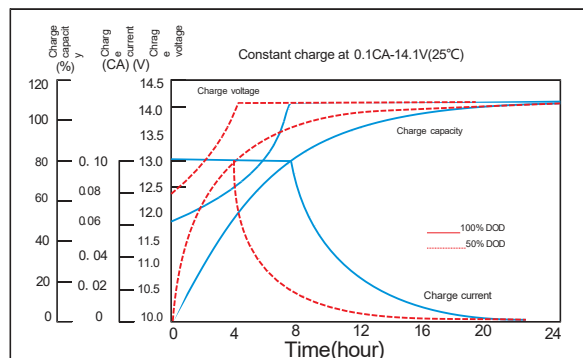


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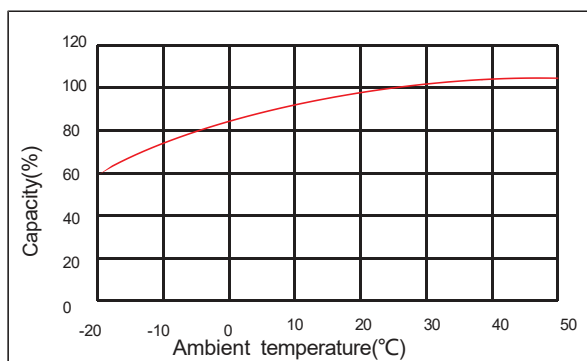
Discharge characteristic



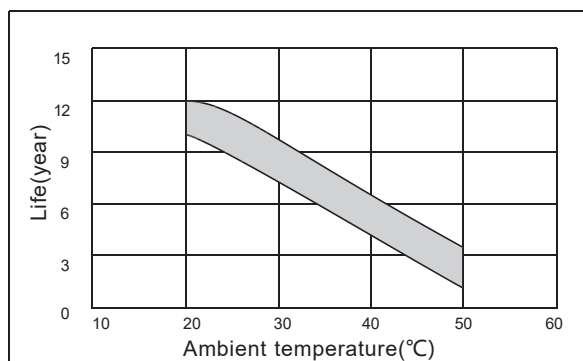
Charging characteristic



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	188.2	111.2	81.0	63.6	47.0	37.5	28.2	22.7	19.3	16.4	12.7	10.5	5.52
1.65V	180.8	106.7	77.7	61.1	45.6	36.7	27.3	22.0	18.8	16.2	12.5	10.4	5.43
1.70V	169.3	102.0	74.3	58.5	43.8	35.1	26.6	21.5	18.3	15.9	12.3	10.3	5.38
1.75V	157.6	96.5	71.0	56.7	42.0	33.9	25.8	21.0	17.9	15.5	12.2	10.1	5.35
1.80V	148.4	93.9	68.5	54.2	40.0	32.8	25.5	20.4	17.4	15.0	12.0	10.0	5.30
1.85V	123.2	79.4	59.8	47.7	36.2	29.1	22.4	18.5	15.9	13.7	11.2	9.22	5.08

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	330.6	201.9	147.3	116.4	87.0	69.0	53.2	42.6	36.4	31.6	24.8	20.7	10.9
1.65V	320.8	195.9	142.6	113.1	84.8	67.8	52.4	41.6	35.6	31.3	24.5	20.5	10.7
1.70V	304.9	189.1	140.9	110.1	83.6	65.6	50.2	40.6	34.8	30.6	24.2	20.2	10.6
1.75V	287.9	182.6	135.1	107.8	81.2	63.9	49.9	39.7	34.0	29.9	23.9	20.0	10.6
1.80V	272.3	176.3	130.0	103.3	77.0	62.8	48.6	39.3	33.2	29.4	23.6	19.8	10.5
1.85V	226.9	153.3	115.5	92.3	71.6	57.5	43.6	36.1	31.1	26.9	22.2	18.6	9.87