



JM Series lead-acid battery JM12-100

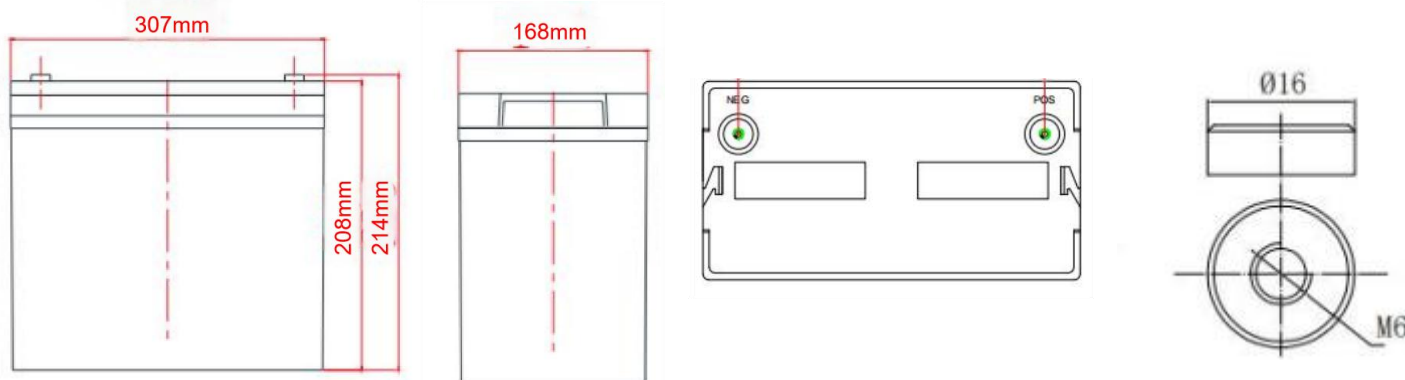
General Features

- 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:307(L)×168(W) ×208(H)×214(TH)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	12 years
Terminal	M6
Approx. Weight	Approx30.0kg (66.1lbs)
Container Material	ABS
short-circuit current	3000A
Internal resistance(Full charged at 25°C:)	4.0 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 YD/T 799-2010

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)	100Ah
3Hour Rate (26.3A to 10.2V)	78.9Ah
1Hour Rate (64.0A to 9.6V)	64Ah

Attain Certificate

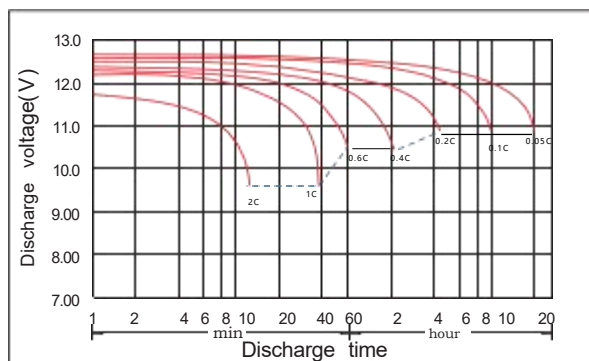
	RoHS

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.

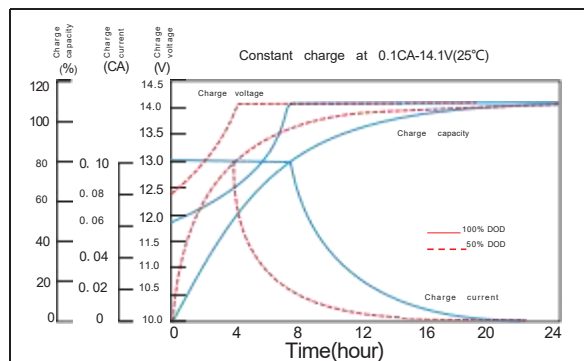


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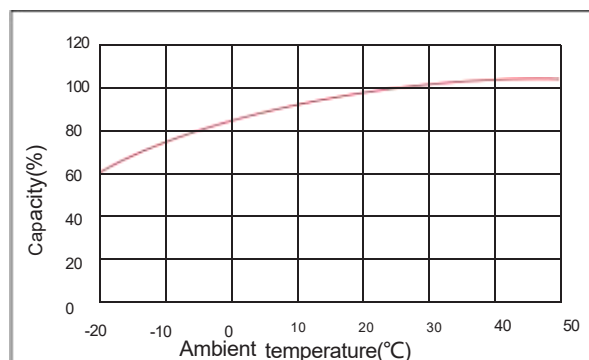
Discharge characteristic



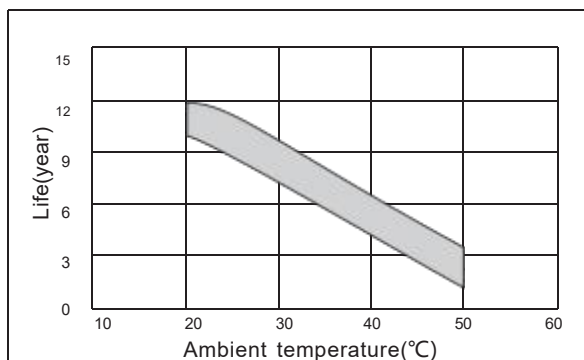
Charging characteristic



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	5min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	240	160	94	64	37	27.4	21.1	18.4	15.7	12.2	10.8	9.18	5.67	5.78
1.65V	236	157	92	62	36	26.9	20.7	18.0	15.4	11.9	10.6	9.01	5.57	5.67
1.70V	231	154	91	61	36	26.3	20.3	17.7	15.1	11.7	10.4	8.84	5.46	5.56
1.75V	227	151	89	60	35	25.8	19.9	17.3	14.8	11.5	10.2	8.67	5.36	5.46
1.80V	222	148	87	59	34	25.3	19.5	17.0	14.5	11.3	10.0	8.50	5.25	5.35

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	5min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	458.4	310.4	183.3	124.8	73.0	53.9	41.5	36.2	30.9	24.0	21.3	18.1	11.2	11.4
1.65V	449.9	304.7	179.9	122.5	71.7	52.9	40.7	35.5	30.3	23.6	20.9	17.8	11.0	11.2
1.70V	441.4	298.9	176.5	120.2	70.3	51.9	40.0	34.8	29.7	23.1	20.6	17.5	10.8	11.0
1.75V	432.9	293.2	173.1	117.8	69.0	50.9	39.2	34.2	29.1	22.7	20.2	17.1	10.6	10.8
1.80V	424.4	287.4	169.7	115.5	67.6	49.9	38.4	33.5	28.6	22.2	19.8	16.8	10.4	10.6