



JM Series lead-acid battery JM12-120(E)

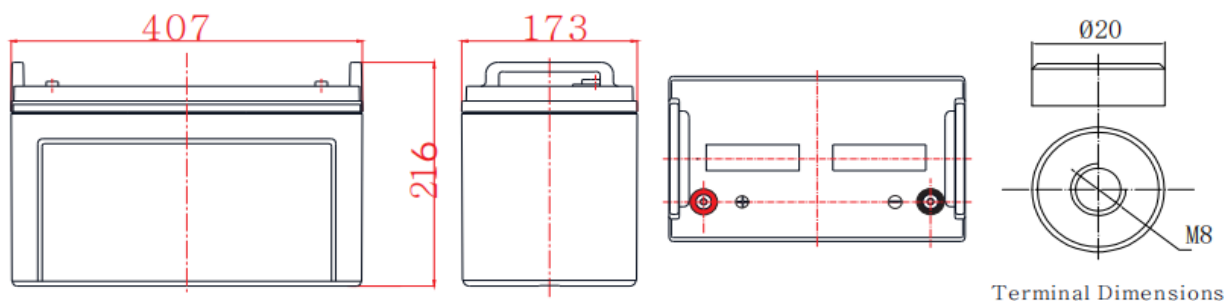
General Features

- ▶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) ×216(H)×216(TH)/(±3)

Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V
Nominal Capacity	120Ah@20hour-rate to 1.75V per cell @25°C
Design life	10 years
Terminal	M8
Approx. Weight	Approx33.5kg ±3%(73.9±3%lbs)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	2500A
Internal resistance(Full charged at 25°C:)	4.8 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. 30.0A;Recom.12A
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

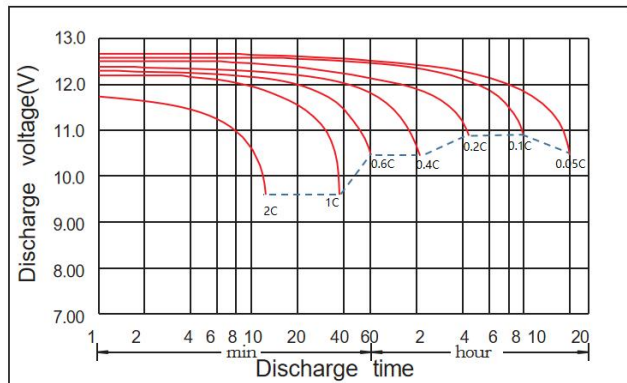
20Hour Rate (6.00A to 10.5V)	120.0Ah
3Hour Rate (29.8A to 10.2V)	89.4Ah
1Hour Rate (70.9A to 9.6V)	70.9Ah

Attain Certificate

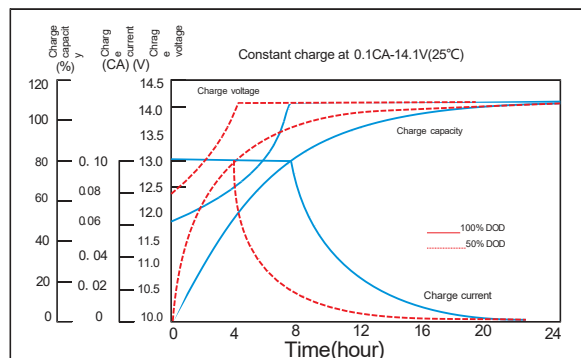
			RoHS

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.

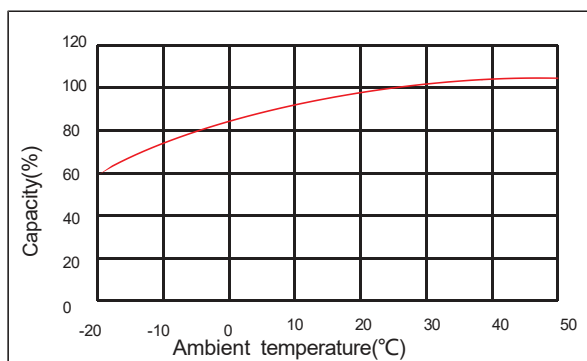
Discharge characteristic



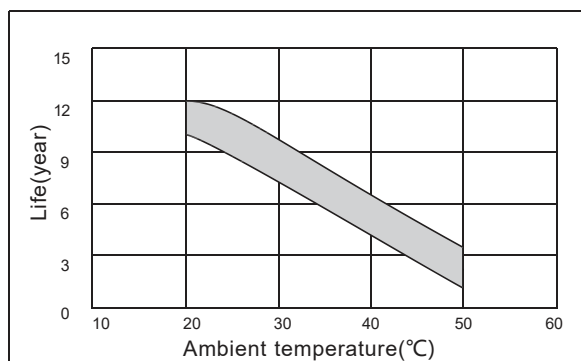
Charging characteristic



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	203.8	122.8	89.9	70.9	52.7	42.0	31.6	25.5	21.7	18.4	14.2	11.8	6.19
1.65V	195.7	117.9	86.3	68.1	51.1	41.1	30.6	24.7	21.1	18.2	14.1	11.7	6.09
1.70V	183.3	112.7	82.5	65.3	49.1	39.4	29.8	24.1	20.6	17.8	13.8	11.5	6.03
1.75V	170.6	106.6	78.8	63.2	47.1	38.0	28.9	23.5	20.0	17.3	13.6	11.4	6.00
1.80V	160.7	103.7	76.0	60.5	44.8	36.8	28.6	22.8	19.5	16.8	13.4	11.2	5.94
1.85V	133.3	87.7	66.3	53.2	40.5	32.6	25.1	20.7	17.8	15.3	12.6	10.3	5.70

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	357.9	223.0	163.5	129.8	97.5	77.3	59.7	47.7	40.8	35.4	27.8	23.2	12.2
1.65V	347.2	216.3	158.3	126.1	95.0	76.0	58.8	46.6	39.9	35.1	27.5	23.0	12.0
1.70V	330.1	208.8	156.4	122.8	93.7	73.6	56.3	45.5	39.0	34.3	27.1	22.7	11.9
1.75V	311.6	201.7	150.0	120.2	91.1	71.6	56.0	44.5	38.1	33.6	26.8	22.4	11.8
1.80V	294.7	194.7	144.3	115.3	86.4	70.5	54.4	44.0	37.3	33.0	26.4	22.2	11.8
1.85V	245.6	169.3	128.2	103.0	80.2	64.4	48.9	40.5	34.9	30.2	24.9	20.9	11.1