



JM Series lead-acid battery JM12-80(Y)

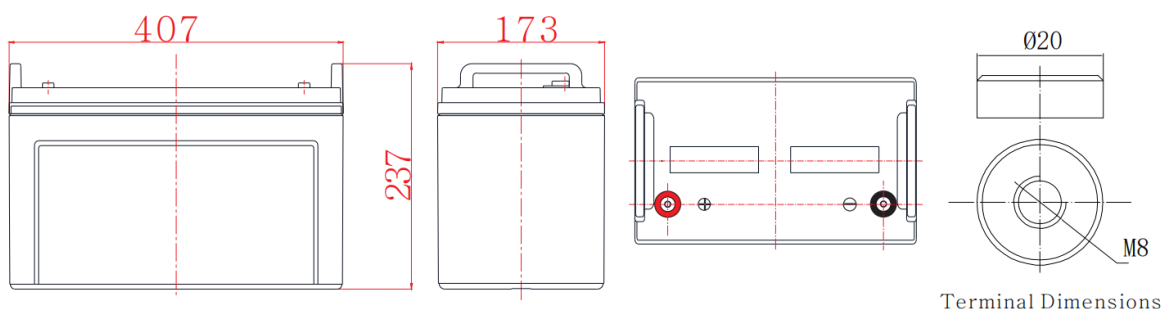
General Features

- ▶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)/(±3)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	80Ah@10hour-rate to 1.80V per cell @25°C
Design life	10 years
Terminal	M8
Approx. Weight	Approx25.0kg±3% (55.1±3%lbs)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	1818A
Internal resistance(Full charged at 25°C:)	6.6 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 (2 5° C)

Charge current:	Max. 20.0A;Recom.8.0A
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
- ▶ Telecommunications system
- ▶ Emergency lighting、Auto control system
- ▶ Solar/wind generating storage cyclic
- ▶ Other general purpose

Rated Capacity

10Hour Rate (8.00A to 10.8V)	80.0Ah
3Hour Rate (21.3A to 10.2V)	63.9Ah
1Hour Rate (51.1A to 9.6V)	51.1Ah

Attain Certificate

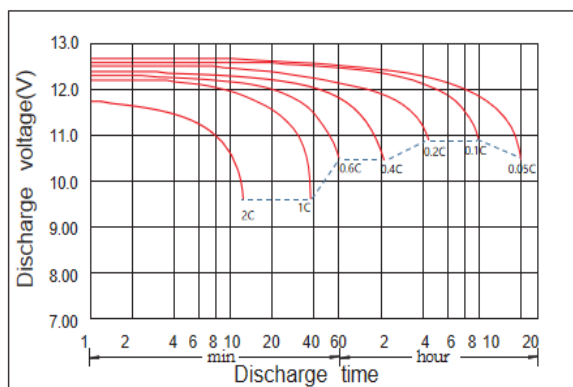


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

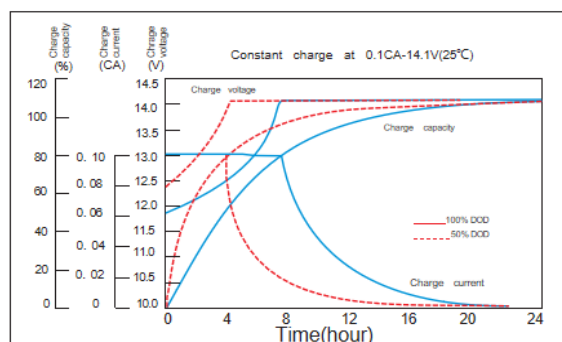


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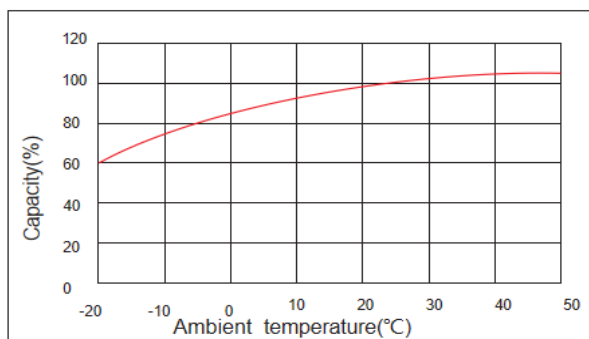
Discharge characteristic



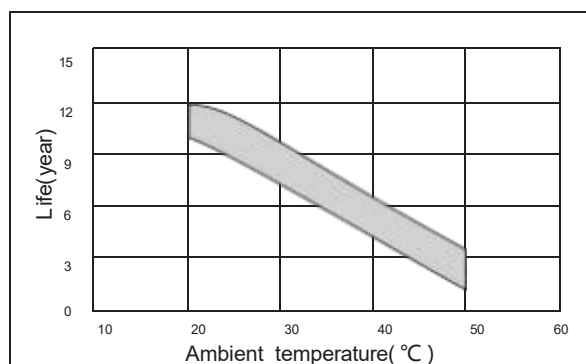
Charging characteristic



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	150.6	88.9	64.8	51.1	37.6	30.0	22.6	18.2	15.5	13.1	10.1	8.44	4.41
1.65V	144.6	85.4	62.2	49.1	36.5	29.3	21.9	17.6	15.1	13.0	10.0	8.34	4.34
1.70V	135.5	81.6	59.4	47.0	35.0	28.1	21.3	17.2	14.7	12.7	9.87	8.21	4.30
1.75V	126.1	77.2	56.8	45.6	33.6	27.1	20.6	16.8	14.3	12.4	9.74	8.10	4.28
1.80V	118.7	75.1	54.8	43.6	32.0	26.3	20.4	16.3	13.9	12.0	9.57	8.00	4.24
1.85V	98.5	63.6	47.8	38.3	28.9	23.2	17.9	14.8	12.7	10.9	8.99	7.38	4.07

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	264.5	161.5	117.9	93.6	69.6	55.2	42.6	34.0	29.1	25.2	19.8	16.6	8.69
1.65V	256.6	156.7	114.1	90.9	67.8	54.3	41.9	33.2	28.4	25.0	19.6	16.4	8.57
1.70V	243.9	151.3	112.7	88.5	66.8	52.5	40.2	32.5	27.8	24.5	19.4	16.2	8.47
1.75V	230.3	146.1	108.1	86.6	65.0	51.1	39.9	31.8	27.2	23.9	19.1	16.0	8.44
1.80V	217.8	141.0	104.0	83.1	61.6	50.3	38.8	31.4	26.6	23.5	18.9	15.8	8.39
1.85V	181.5	122.7	92.4	74.2	57.2	46.0	34.9	28.9	24.9	21.5	17.7	14.9	7.90