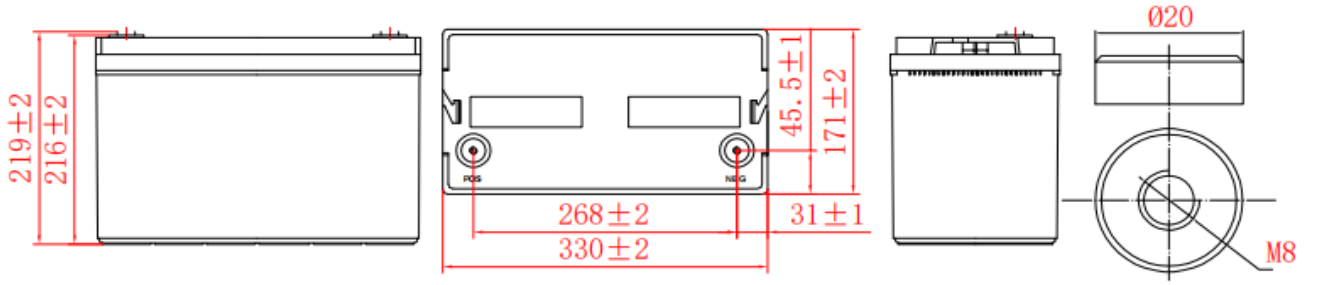
JM Series lead-acid battery JM12-110(D)

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) ×216(H)×219(TH)/(±3) **Unit: mm**



Terminal Dimensions

Specification	
Nominal Voltage	12V
Nominal Capacity	110Ah@20hour-rate to 1.75V per cell @25℃
Design life	10 years
Terminal	M8
Approx. Weight	Approx. 32.0kg±3% (70.5±3%lbs)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
short-circuit current	2400A
Internal resistance(Full charged at 25°C:)	5.0mΩ
Self discharge	3% of capacity declined per month at 25°C
Operating Temperature	
Discharge:	-20 ~50℃(-4~ 122°F)
Charge :	-20 ~50℃(-4~ 122°F)
Storage:	-20 ~50℃(-4~ 122°F)
Charge Method(25 °C)	
Charge current:	Max. 27.5A;Recom. 11A
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 (5.50A to 10.8V)	110Ah
3Hour Rate (27.3A to 10.2V)	81.9Ah
1Hour Rate (65A to 9.6V)	65Ah

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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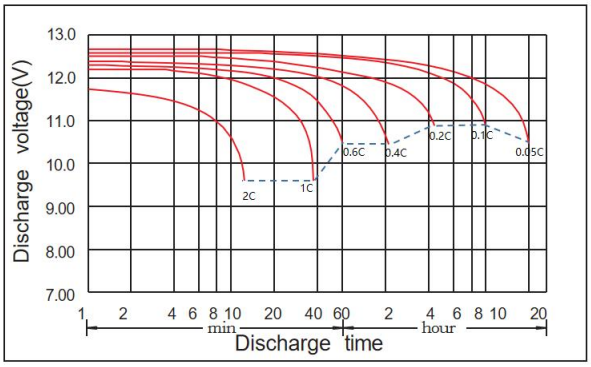
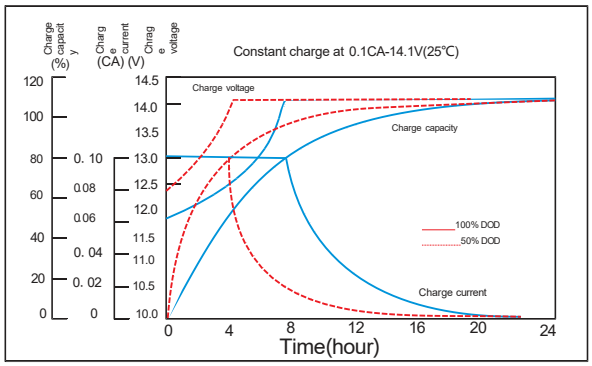
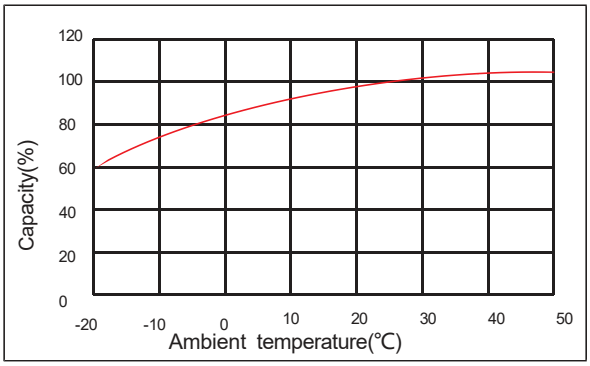
Discharge characteristic



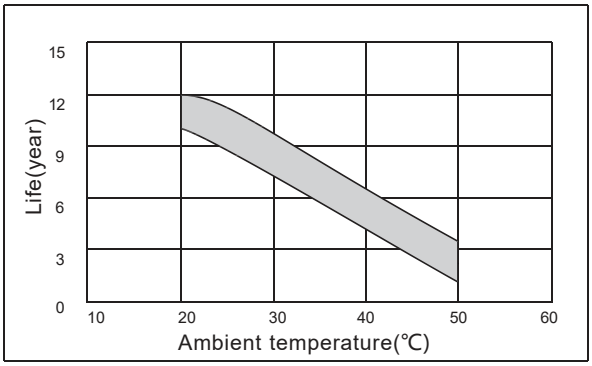
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float life



Constant Current Discharge Characteristics Unit:A (25℃,77℉)

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	189.6	112.5	82.4	65.0	48.3	38.5	29.0	23.4	19.9	16.9	13.0	10.8	5.67
1 65V	182.2	108.0	79.1	62.5	46.8	37.7	28.1	22.6	19.4	16.6	12.9	10.7	5.58
1.70V	170.6	103.3	75.6	59.8	45.0	36.1	27.3	22.1	18.9	16.3	12.7	10.5	5.53
1.75V	158.8	97.7	72.2	58.0	43.1	34.8	26.5	21.5	18.4	15.9	12.5	10.4	5.50
1 80V	149.5	95.0	69.7	55.4	41.1	33.7	26.2	20.9	17.9	15.4	12.3	10.3	5.45
1.85V	124.1	80.4	60.8	48.8	37.2	29.9	23.0	19.0	16.3	14.1	11.5	9.48	5.22

Constant Power Discharge Characteristics Unit: W/cell (25℃ ,77℉)

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	333.1	204.4	149.9	119.0	89.4	70.9	54.7	43.7	37.4	32.4	25.4	21.3	11.2
1 65V	323.2	198.3	145.1	115.6	87.1	69.7	53.9	42.7	36.5	32.1	25.2	21.1	11.0
1.70V	307.2	191.4	143.4	112.6	85.9	67.4	51.6	41.7	35.7	31.5	24.9	20.8	10.9
1.75V	290.0	184.9	137.5	110.2	83.5	65.6	51.3	40.8	34.9	30.8	24.6	20.5	10.8
1 80V	274.3	178.5	132.3	105.6	79.2	64.6	49.9	40.4	34.2	30.2	24.2	20.3	10.8
1.85V	228.6	155.2	117.5	94.4	73.5	59.1	44.8	37.1	32.0	27.7	22.8	19.1	10.1

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