

JM12-100



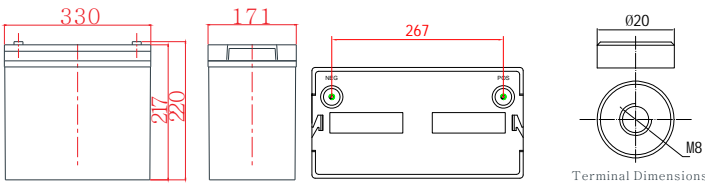
JM Series lead-acid battery

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)×217(H)×220(TH) Unit: mm



Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 29.0kg (63.93lbs)
Container Material	ABS
Rated Capacity	100Ah 10Hour Rate(10.00A to 10.8V)
	81.9Ah 3Hour Rate(27.3A to 10.2V)
	65.5Ah 1Hour Rate (65.5A to 9.60V)
Internal resistance	Full charged at 25°C: 4.5 mΩ
Max. Discharge Current	1200A(5S)
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)
	Charge: -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
Charge current:	Max. 25A ; Recom. 10A
Charge Method (25 °C)	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)
Self discharge	3% of capacity declined per month at 25°C

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

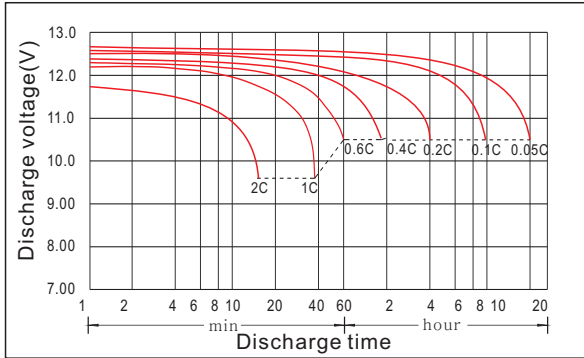
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	343	228	165	100	80.3	65.5	42.3	37.6	28.0	20.3	18.8	15.0	12.3	10.4	5.33
1.65V	332	227	158	98.0	79.9	65.1	41.9	37.4	27.8	20.1	18.7	14.8	12.2	10.3	5.30
1.70V	320	225	155	96.0	79.2	64.6	41.5	37.1	27.3	19.9	18.4	14.7	12.1	10.2	5.27
1.75V	293	222	150	95.0	78.1	63.7	41.1	36.5	27.0	19.7	18.2	14.6	12.0	10.1	5.25
1.80V	262	216	139	91.0	76.1	62.0	40.7	35.9	26.9	19.5	17.8	14.4	12.0	10.0	5.23
1.85V	235	200	124	83.0	70.5	57.5	39.4	34.0	25.3	18.9	16.9	14.0	11.4	9.70	5.13

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

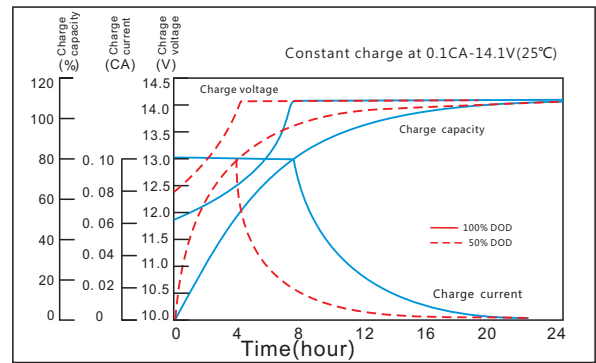
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	576	387	289	181	149	124	84.4	71.0	53.3	40.0	35.7	29.3	24.0	20.0	10.5
1.65V	560	384	285	179	148	123	83.6	70.8	52.7	39.6	35.4	29.0	23.8	19.8	10.5
1.70V	551	381	282	179	146	122	82.7	70.6	52.3	39.2	35.2	28.7	23.7	19.6	10.4
1.75V	513	378	278	178	145	121	81.9	70.1	52.0	38.8	35.0	28.5	23.6	19.4	10.4
1.80V	471	374	263	173	144	120	81.0	69.9	51.9	38.4	34.6	28.2	23.3	19.2	10.3
1.85V	419	346	234	159	133	111	79.8	66.8	49.3	37.8	33.0	27.7	22.6	18.9	10.3

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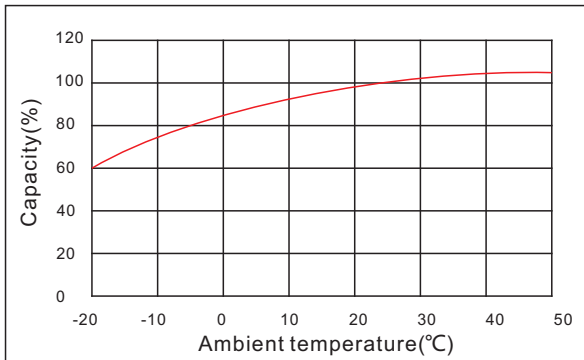
Discharge characteristic



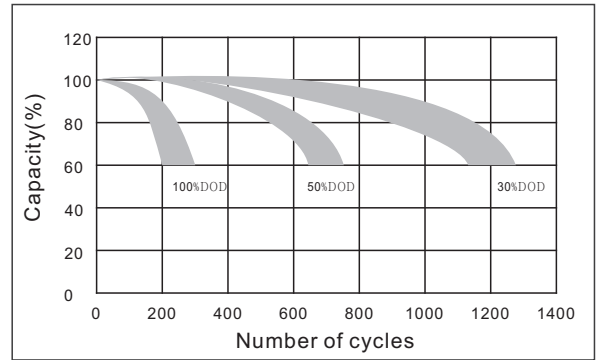
Charging characteristic



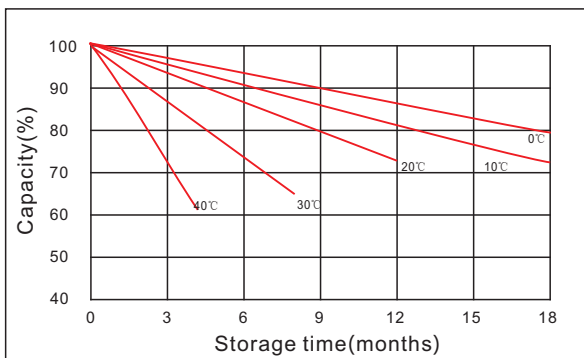
The effect of temperature on capacity



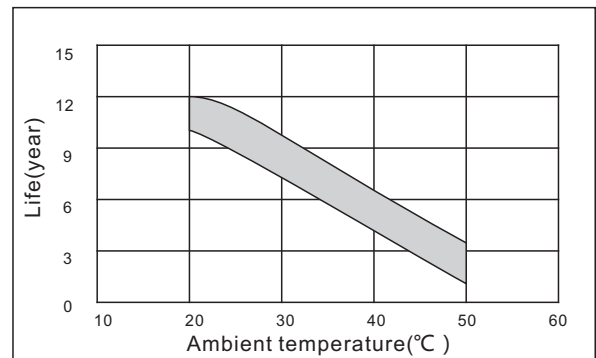
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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