

JM12-75

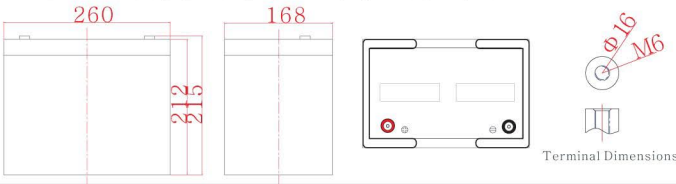


General Features

- 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: 260(L) × 168(W) × 212(H) × 215(TH) Unit: mm



JM Series lead-acid battery

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	75Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 21.8kg (48.1lbs)
Container Material	ABS
Rated Capacity	75.0Ah → 10Hour Rate (7.50A to 10.8V)
	60.3Ah → 3Hour Rate (20.1A to 10.8V)
	49.1Ah → 1Hour Rate (49.1A to 10.5V)
Internal resistance	Full charged at 25°C: 7.0 mΩ
Max. Discharge Current	900A(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. 18.8A ; Recom. 7.5A
Charge Method (25 °C)	Float Charge: 13.5-13.8V, recom. 13.5V (-18mV/°C)
	Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/°C)
	Cycle charge: 14.4-15.0V, recom. 14.4V (-30mV/°C)
Self discharge	3% of capacity declined per month at 25°C

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

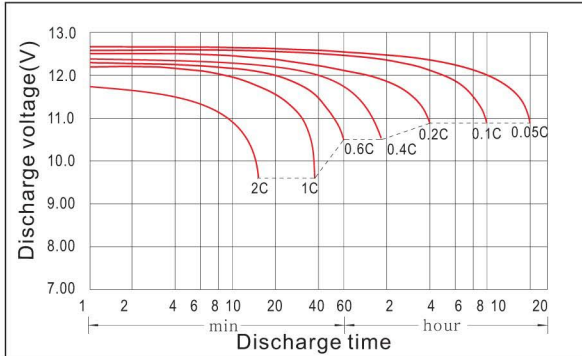
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	264	142	86.4	50.5	29.0	21.0	14.1	9.26	7.80	4.10
1.65V	256	138	84.9	50.2	28.8	20.8	14.0	9.19	7.73	4.07
1.70V	246	135	83.4	49.8	28.6	20.5	13.8	9.11	7.65	4.05
1.75V	226	130	82.7	49.1	28.2	20.3	13.7	9.04	7.58	4.04
1.80V	203	121	79.1	47.8	27.6	20.1	13.3	8.97	7.50	4.01
1.85V	181	108	72.2	44.3	26.2	19.0	12.6	8.60	7.28	3.95

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

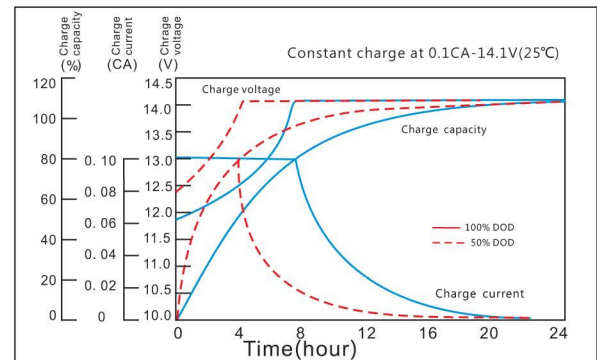
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	443	250	156	95.5	54.8	40.0	26.8	18.0	15.0	8.10
1.65V	426	246	155	94.7	54.6	39.5	26.6	17.9	14.9	8.06
1.70V	424	243	155	94.0	54.4	39.2	26.4	17.8	14.7	8.03
1.75V	395	241	154	93.3	54.1	39.0	26.2	17.6	14.6	7.99
1.80V	363	228	150	92.5	53.9	38.9	25.9	17.5	14.4	7.95
1.85V	324	204	138	85.9	51.5	37.0	24.8	16.9	14.2	7.88

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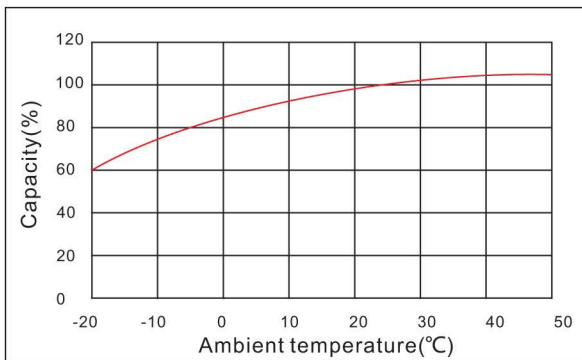
Discharge characteristic



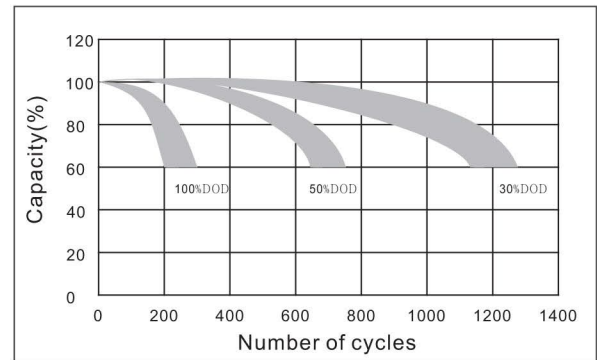
Charging characteristic



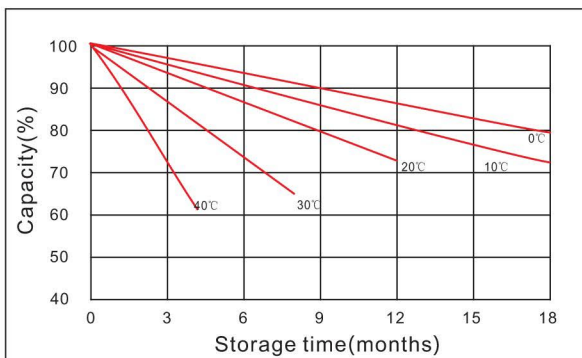
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

