

JM12-45



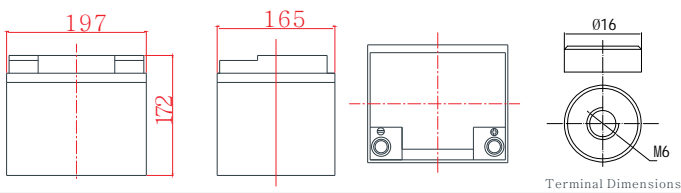
JM Series lead-acid battery

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: 197(L)×165(W)×172(H)×172(TH) Unit: mm



Terminal Dimensions

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	45Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 15.0kg (33.06lbs)
Container Material	ABS
Rated Capacity	45.0Ah → 10Hour Rate (4.50A to 10.8V)
	36.9Ah → 3Hour Rate (12.3A to 10.2V)
	30.3Ah → 1Hour Rate (30.3A to 9.6V)
Internal resistance	Full charged at 25°C: 11.8 mΩ
Max. Discharge Current	540A(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. 11.3A ; Recom.4.5A
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)

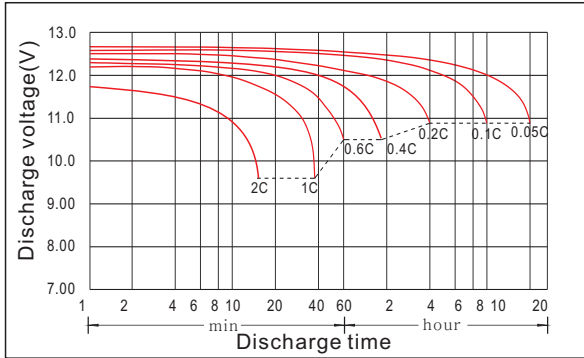
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	159	105	85.2	51.8	37.2	30.3	19.0	17.4	12.6	9.13	8.47	6.75	5.56	4.68	2.46
1.65V	154	105	82.6	50.9	36.9	30.1	18.9	17.3	12.5	9.05	8.38	6.69	5.51	4.64	2.44
1.70V	148	104	80.8	50.1	36.7	29.9	18.7	17.2	12.3	8.95	8.29	6.62	5.47	4.59	2.43
1.75V	136	103	78.2	49.6	36.2	29.5	18.5	16.9	12.2	8.87	8.20	6.56	5.42	4.55	2.42
1.80V	122	100	72.9	47.5	35.2	28.7	18.3	16.6	12.1	8.78	7.98	6.49	5.38	4.50	2.41
1.85V	108	92.6	65.0	43.3	32.6	26.6	17.8	15.7	11.4	8.52	7.59	6.30	5.16	4.37	2.37

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

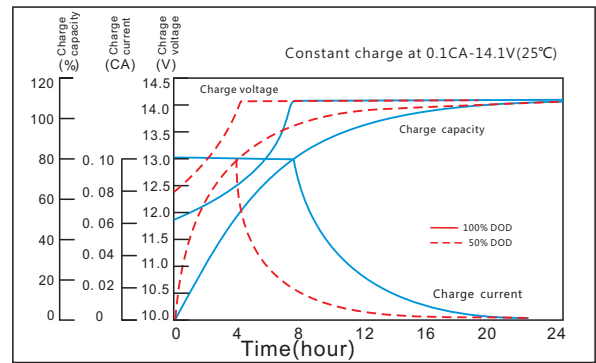
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	266	179	150	93.8	68.8	57.3	38.0	32.9	24.0	18.0	16.1	13.2	10.8	9.00	4.86
1.65V	256	177	147	92.9	68.2	56.8	37.6	32.8	23.7	17.8	16.0	13.1	10.7	8.91	4.84
1.70V	254	176	146	92.9	67.7	56.4	37.2	32.6	23.5	17.6	15.8	12.9	10.7	8.82	4.82
1.75V	237	175	145	92.4	67.2	56.0	36.8	32.5	23.4	17.5	15.7	12.8	10.6	8.73	4.79
1.80V	218	173	137	90.2	66.6	55.5	36.5	32.4	23.3	17.3	15.6	12.7	10.5	8.64	4.77
1.85V	195	161	122	82.7	61.9	51.6	35.9	30.9	22.2	17.0	14.9	12.5	10.1	8.51	4.73

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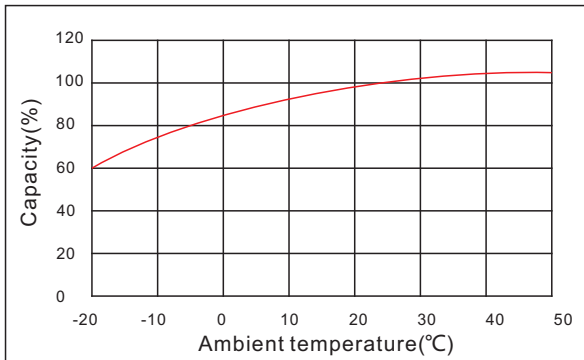
Discharge characteristic



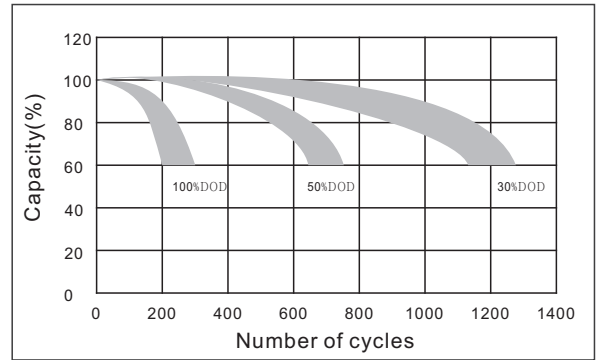
Charging characteristic



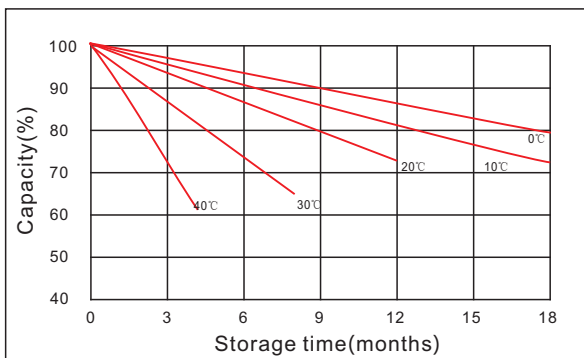
The effect of temperature on capacity



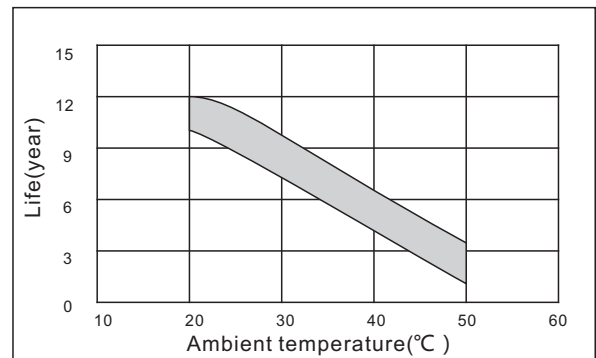
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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