

# JM12-55

## JM Series lead-acid battery

Executive standard GB/T 19639.1-2014

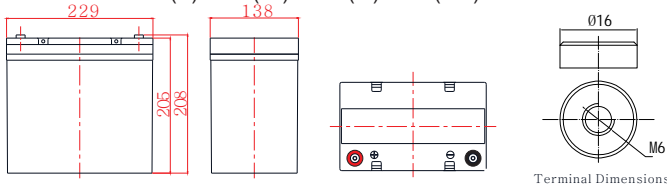


### General Features

- 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: 229(L)×138(W)×205(H)×208(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	55Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 16.5kg (36.4lbs)
Container Material	ABS
Rated Capacity	55.0Ah ➔ 10Hour Rate (5.50A to 10.8V)
	45.0Ah ➔ 3Hour Rate (15.0A to 10.2V)
	37.0Ah ➔ 1Hour Rate (37.0A to 9.6V)
Internal resistance	Full charged at 25°C: 9.9 mΩ
Max. Discharge Current	660A(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. 13.8A ; Recom.5.5A
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)

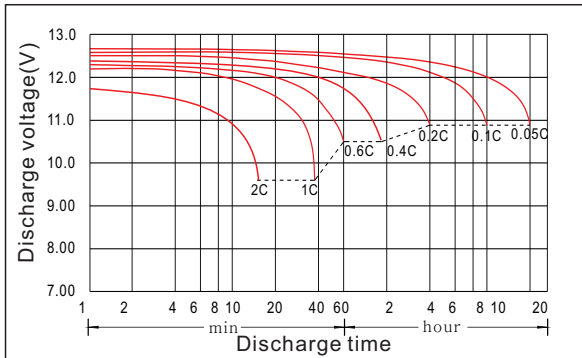
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	194	129	104	63.3	45.4	37.0	23.3	21.2	15.4	11.2	10.3	8.25	6.79	5.72	3.00
1.65V	188	128	101	62.3	45.1	36.8	23.1	21.1	15.3	11.1	10.2	8.17	6.74	5.67	2.99
1.70V	180	127	98.8	61.2	44.8	36.5	22.8	21.0	15.0	10.9	10.1	8.09	6.68	5.61	2.97
1.75V	166	125	95.6	60.6	44.2	36.0	22.6	20.6	14.9	10.8	10.0	8.02	6.63	5.56	2.96
1.80V	149	122	89.1	58.0	43.1	35.1	22.4	20.3	14.8	10.7	9.76	7.93	6.58	5.50	2.94
1.85V	133	113	79.4	52.9	39.9	32.5	21.7	19.2	13.9	10.4	9.27	7.70	6.30	5.34	2.89

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

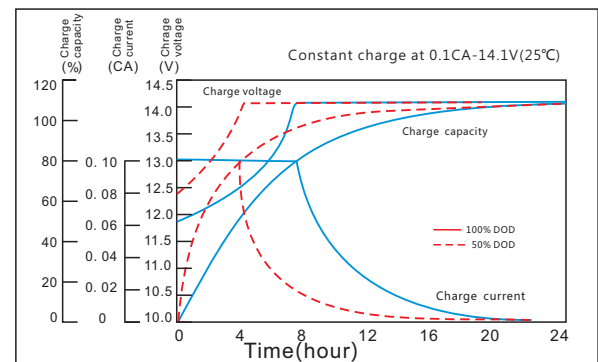
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	325	218	183	115	84.0	70.0	46.4	40.2	29.3	22.0	19.6	16.1	13.2	11.0	5.94
1.65V	313	217	180	114	83.4	69.5	46.0	40.0	28.9	21.8	19.5	16.0	13.1	10.9	5.91
1.70V	311	215	178	114	82.7	68.9	45.6	39.9	28.8	21.6	19.4	15.8	13.0	10.8	5.89
1.75V	290	213	177	113	82.1	68.4	45.2	39.7	28.6	21.4	19.2	15.7	12.9	10.7	5.86
1.80V	266	212	167	110	81.5	67.9	44.7	39.6	28.5	21.2	19.0	15.5	12.8	10.6	5.83
1.85V	238	197	150	101	75.6	63.0	43.9	37.8	27.1	20.8	18.2	15.3	12.4	10.4	5.78

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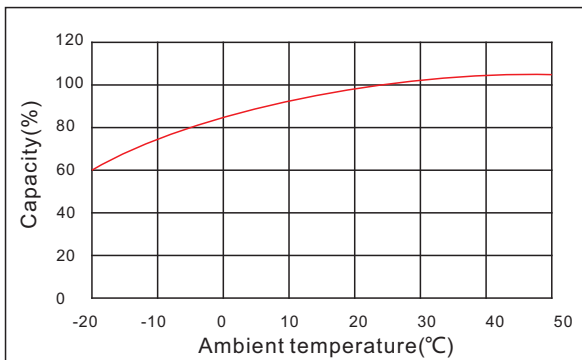
Discharge characteristic



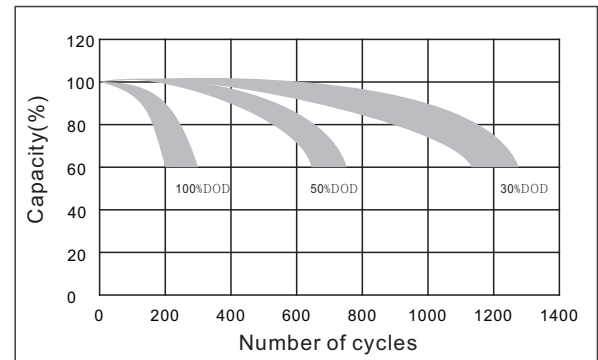
Charging characteristic



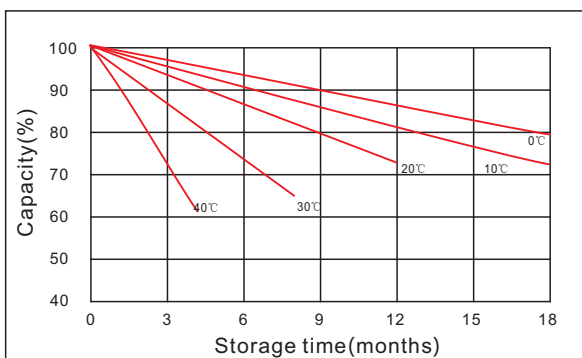
The effect of temperature on capacity



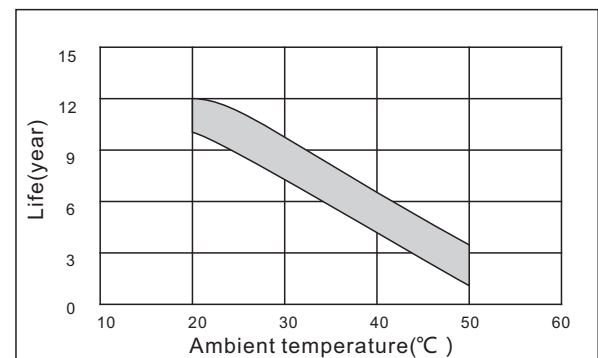
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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