

JM12-40



JM Series lead-acid battery

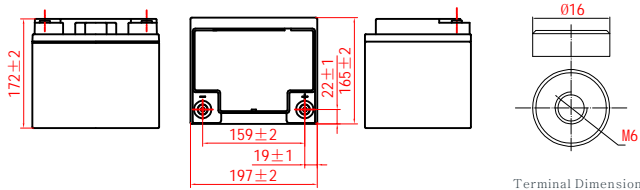
Executive standard GB/T 19639.1-2014

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: 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	40Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 12.3kg (27.1lbs)
Container Material	ABS
Rated Capacity	40.0Ah ➤ 10Hour Rate (4.00A to 10.8V)
	32.7Ah ➤ 3Hour Rate (10.9A to 10.2V)
	25.2Ah ➤ 1Hour Rate (25.2A to 9.6V)
Internal resistance	Full charged at 25°C: 10.0 mΩ
Max. Discharge Current	480A(5S) Discharge: -20 ~50°C(-4~ 122°F)
Operating Temperature	Charge: -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
	Charge current: Max. 10.0A ; Recom.4.0A
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)

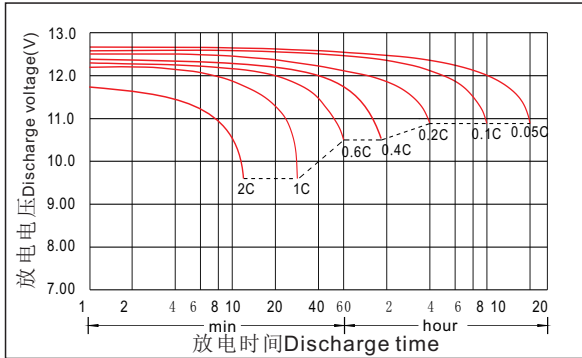
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	135	90.0	68.0	41.0	31.8	25.2	17.0	15.6	11.2	8.11	7.52	6.00	4.94	4.16	2.14
1.65V	133	87.3	64.6	40.3	31.4	25.1	16.8	15.4	11.1	8.03	7.46	5.95	4.90	4.13	2.11
1.70V	125	86.6	63.9	39.6	31.0	24.9	16.6	15.2	10.9	7.95	7.38	5.89	4.86	4.08	2.08
1.75V	121	83.2	63.2	39.3	30.8	24.6	16.5	15.0	10.8	7.89	7.30	5.84	4.82	4.05	2.05
1.80V	116	77.3	57.8	37.6	29.6	23.9	16.3	14.7	10.7	7.81	7.09	5.76	4.78	4.00	2.02
1.85V	105	71.9	52.3	34.3	27.2	22.2	15.8	14.0	10.1	7.58	6.74	5.60	4.59	3.89	1.97

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

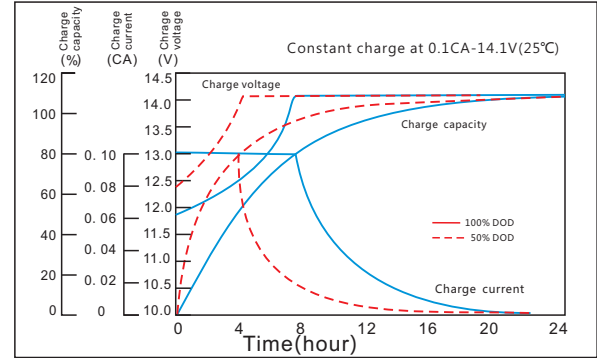
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	230	158	122	73.8	58.8	48.1	33.0	30.3	21.7	15.7	14.6	11.7	9.61	8.11	4.19
1.65V	226	153	116	72.5	58.1	47.9	32.6	29.9	21.5	15.6	14.5	11.6	9.56	8.05	4.14
1.70V	213	152	115	71.3	57.4	47.6	32.2	29.5	21.1	15.4	14.3	11.4	9.50	7.96	4.08
1.75V	206	146	114	70.7	57.0	47.0	32.0	29.1	21.0	15.3	14.1	11.3	9.42	7.90	4.02
1.80V	197	135	104	67.7	54.8	45.6	31.6	28.5	20.8	15.2	13.8	11.2	9.32	7.80	3.96
1.85V	180	127	94.7	62.1	50.6	42.6	30.8	27.3	19.7	14.8	13.1	10.9	8.99	7.62	3.88

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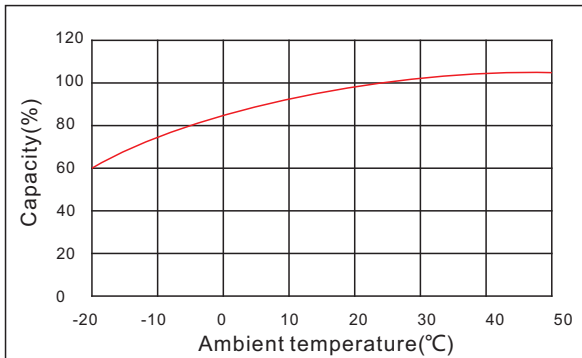
Discharge characteristic



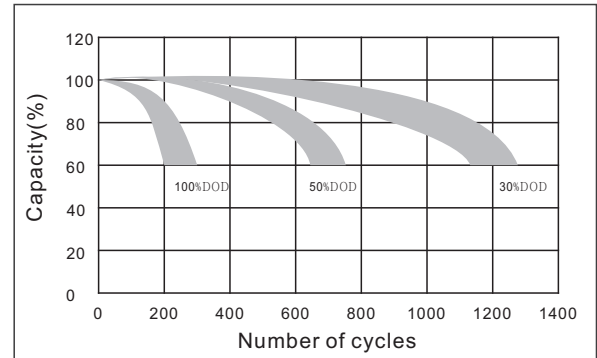
Charging characteristic



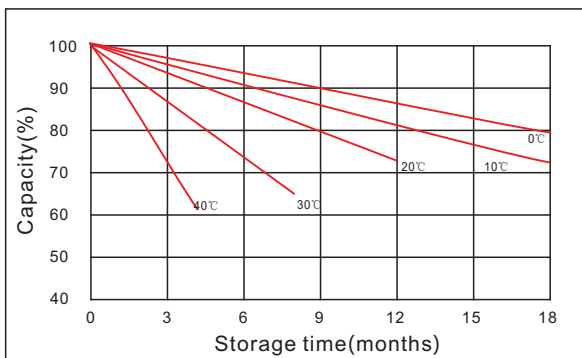
The effect of temperature on capacity



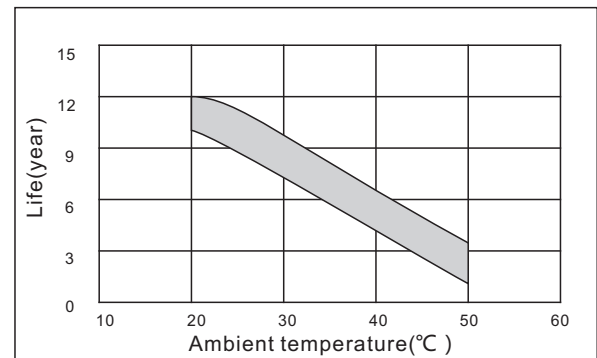
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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