

JM12-38

JM Series lead-acid battery

Executive standard GB/T 19639.1-2014



Applications

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

Specification

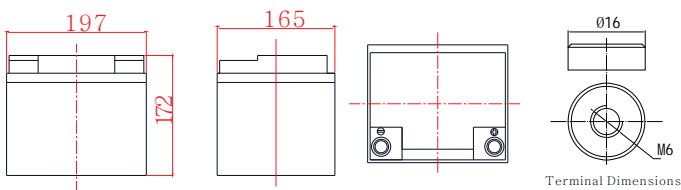
Nominal Voltage	12V
Nominal Capacity	38Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 12.5kg (27.6lbs)
Container Material	ABS
Rated Capacity	38.0Ah 10Hour Rate (3.80A to 10.8V)
	31.2Ah 3Hour Rate (10.4A to 10.2V)
	25.6Ah 1Hour Rate (25.6A to 9.6V)
Internal resistance	Full charged at 25°C: 9.3 mΩ
Max. Discharge Current	456A(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. 9.5A ; Recom.3.8A
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

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



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

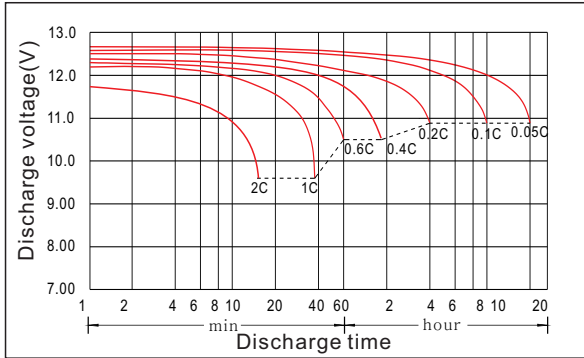
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	134	89.1	71.9	43.8	31.4	25.6	16.1	14.7	10.7	7.70	7.15	5.69	4.69	3.95	2.07
1.65V	130	88.4	69.8	43.0	31.2	25.4	15.9	14.6	10.5	7.62	7.08	5.64	4.66	3.91	2.06
1.70V	125	87.7	68.3	42.3	30.9	25.2	15.8	14.5	10.4	7.57	7.00	5.59	4.62	3.88	2.05
1.75V	115	86.7	66.0	41.9	30.5	24.9	15.6	14.3	10.3	7.49	6.93	5.54	4.58	3.84	2.04
1.80V	103	84.2	61.6	40.1	29.7	24.2	15.5	14.0	10.2	7.41	6.74	5.48	4.54	3.80	2.03
1.85V	91.6	78.3	54.9	36.6	27.6	22.5	15.0	13.3	9.61	7.20	6.41	5.32	4.36	3.69	2.00

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

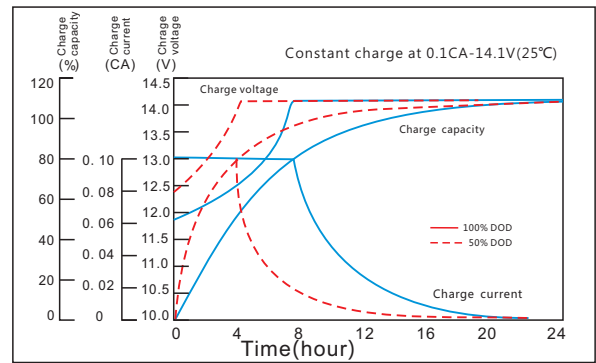
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	224	151	127	79.2	58.1	48.4	32.1	27.7	20.3	15.2	13.6	11.1	9.12	7.60	4.10
1.65V	216	150	124	78.4	57.6	48.0	31.7	27.7	20.0	15.0	13.5	11.0	9.05	7.52	4.09
1.70V	215	149	123	78.4	57.1	47.6	31.4	27.6	19.9	14.9	13.4	10.9	9.01	7.45	4.07
1.75V	200	148	122	78.1	56.8	47.3	31.1	27.4	19.8	14.7	13.3	10.8	8.94	7.37	4.05
1.80V	184	146	116	76.2	56.3	46.9	30.8	27.3	19.7	14.6	13.1	10.7	8.86	7.30	4.03
1.85V	164	136	103	69.9	52.2	43.5	30.3	26.1	18.7	14.4	12.5	10.5	8.56	7.18	3.99

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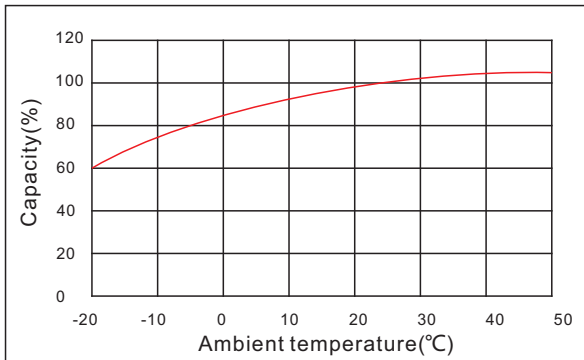
Discharge characteristic



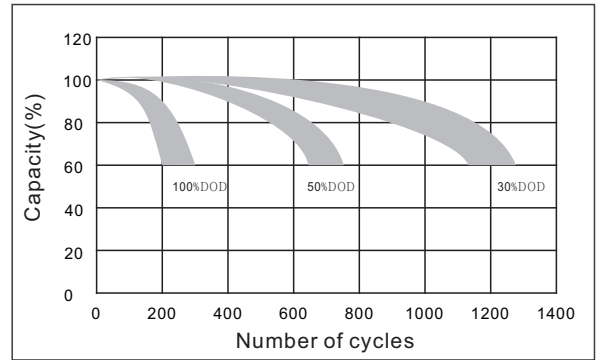
Charging characteristic



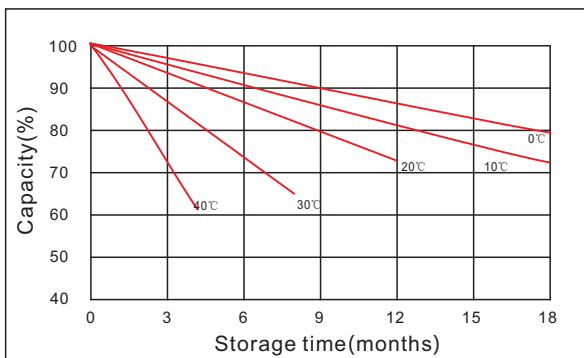
The effect of temperature on capacity



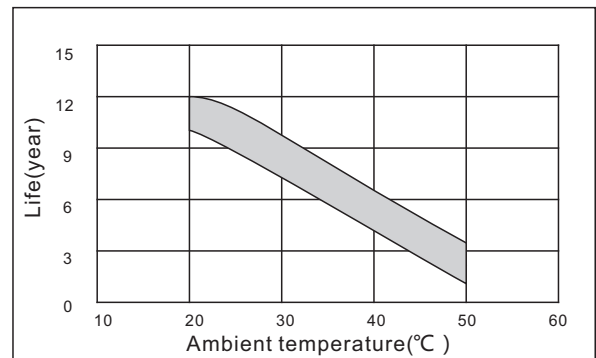
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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