

JM12-100



JM Series lead-acid battery

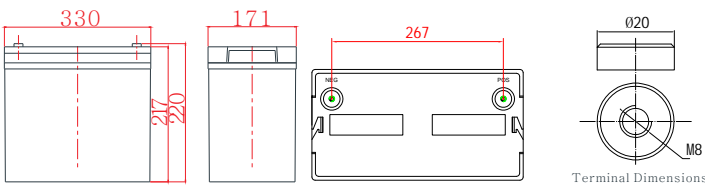
Executive standard YD/T 799-2010

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: 330(L)×171(W)×217(H)×220(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	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 29.0kg (63.93lbs)
Container Material	ABS
Rated Capacity	100Ah 10Hour Rate(10.00A to 10.8V)
	82.2Ah 3Hour Rate(27.4A to 10.2V)
	67.3Ah 1Hour Rate (67.3A to 9.60V)
Internal resistance	Full charged at 25°C: 5.0 mΩ
Max. Discharge Current	1200A(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. 25A ; Recom. 10A
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)

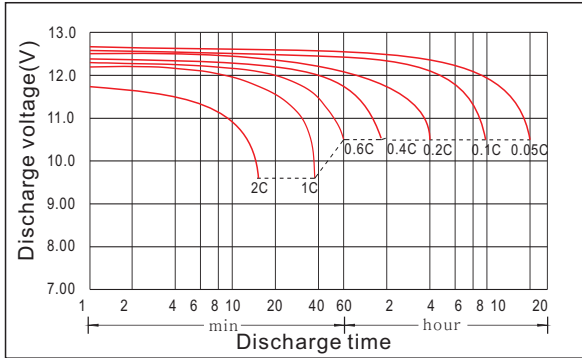
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	353	235	190	100	82.9	67.3	42.5	38.7	28.1	20.4	18.9	15.1	12.4	10.4	5.48
1.65V	343	234	185	98.3	82.4	66.9	42.1	38.5	27.8	20.2	18.7	14.9	12.3	10.3	5.45
1.70V	329	232	181	96.5	81.8	66.4	41.7	38.2	27.4	20.0	18.5	14.8	12.2	10.2	5.42
1.75V	303	229	175	95.7	80.6	65.5	41.3	37.6	27.1	19.8	18.3	14.7	12.1	10.1	5.40
1.80V	271	223	163	91.3	78.6	63.8	40.9	36.9	27.0	19.6	17.8	14.5	12.0	10.0	5.37
1.85V	242	207	145	83.7	72.8	59.1	39.5	35.1	25.4	19.0	17.0	14.1	11.5	9.74	5.28

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

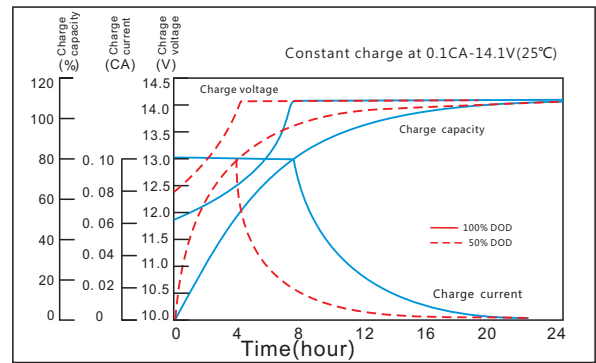
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	593	397	334	181	153	127	84.7	73.3	53.5	40.1	35.8	29.4	24.1	20.1	10.8
1.65V	570	394	329	179	152	126	83.9	73.1	52.8	39.7	35.6	29.1	23.9	20.0	10.8
1.70V	567	391	325	179	151	125	83.0	72.8	52.5	39.3	35.3	28.8	23.8	19.7	10.7
1.75V	529	388	323	178	150	124	82.2	72.4	52.2	38.9	35.1	28.6	23.6	19.5	10.7
1.80V	486	385	305	175	149	123	81.3	72.2	52.0	38.5	34.7	28.3	23.4	19.2	10.6
1.85V	434	360	273	160	139	115	80.1	69.0	49.5	37.9	33.1	27.8	22.6	19.0	10.5

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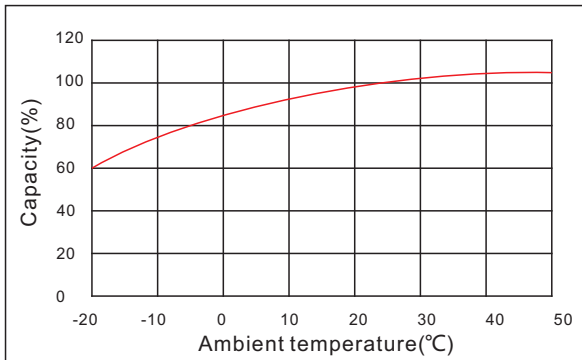
Discharge characteristic



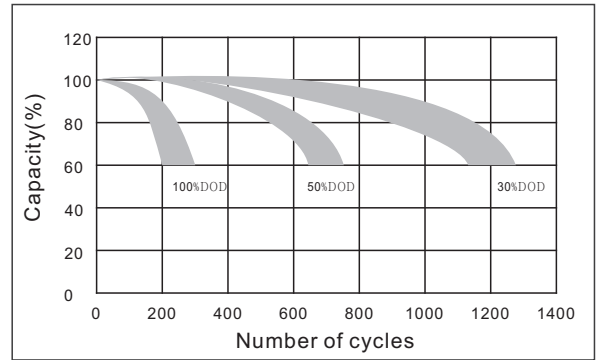
Charging characteristic



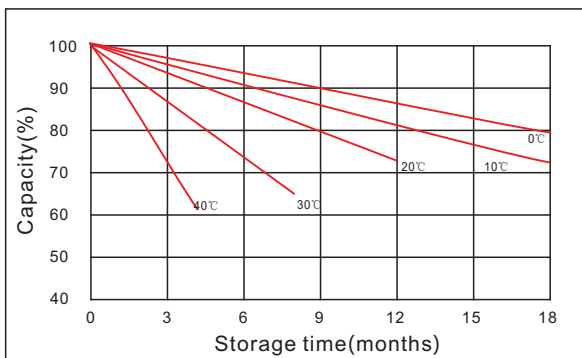
The effect of temperature on capacity



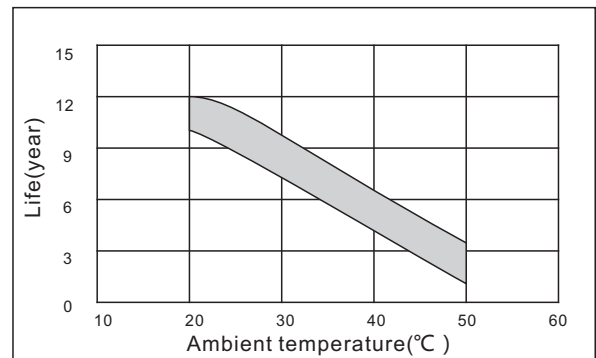
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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