

JM12-250

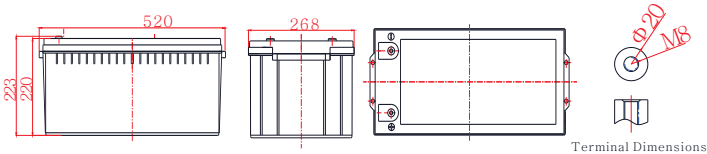


General Features

- 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: 520(L) × 268(W) × 220(H) × 223(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	250Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 68.0kg (150lbs)
Container Material	ABS
Rated Capacity	250Ah → 10Hour Rate (25.0A to 10.8V)
	201Ah → 3Hour Rate (67.1A to 10.8V)
	164Ah → 1Hour Rate (164A to 10.5V)
Internal resistance	Full charged at 25°C: 2.8 mΩ
Max. Discharge Current	3000A(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. 62.5A ; Recom.25A
Charge Method (25 °C)	Float Charge: 13.5-13.8V, recom. 13.5V (-18mV/ °C)
	Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/ °C)
	Cycle charge: 14.4-15.0V, recom. 14.4V (-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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

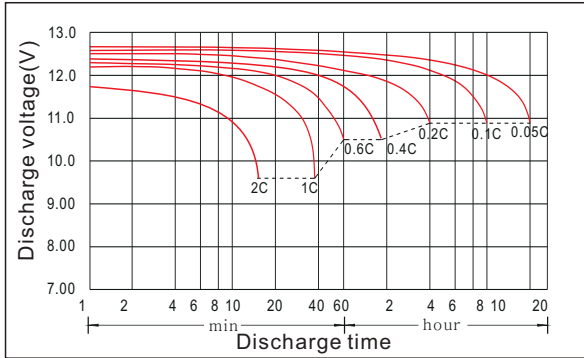
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	473	288	168	96.5	70.1	47.0	30.9	26.0	13.7
1.65V	459	283	167	96.0	69.3	46.6	30.6	25.8	13.6
1.70V	449	278	166	95.3	68.4	46.1	30.4	25.5	13.5
1.75V	434	276	164	93.8	67.6	45.6	30.1	25.3	13.5
1.80V	405	264	159	92.1	67.1	44.3	29.9	25.0	13.4
1.85V	361	241	148	87.5	63.2	42.1	28.7	24.3	13.2

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

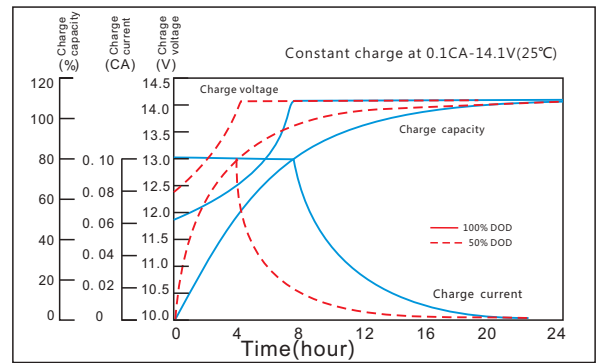
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	834	521	318	183	133	89.2	60.0	50.0	27.0
1.65V	819	516	316	182	132	88.7	59.5	49.5	26.9
1.70V	809	516	313	181	131	88.0	59.3	49.0	26.8
1.75V	804	514	311	180	130	87.5	58.8	48.5	26.6
1.80V	760	501	308	180	130	86.5	58.3	48.0	26.5
1.85V	680	460	286	172	123	82.6	56.3	47.3	26.3

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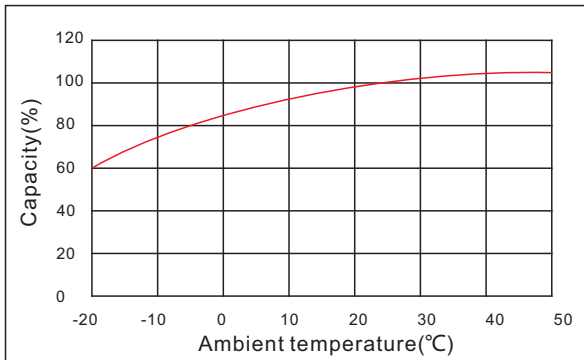
Discharge characteristic



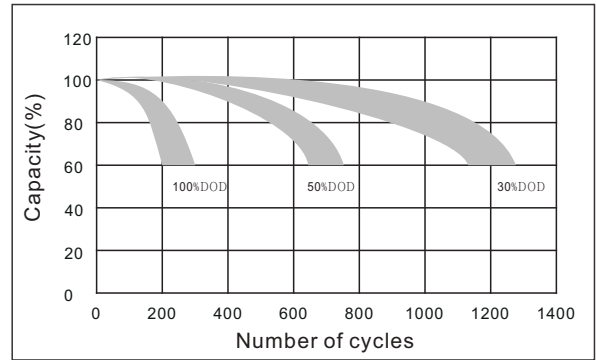
Charging characteristic



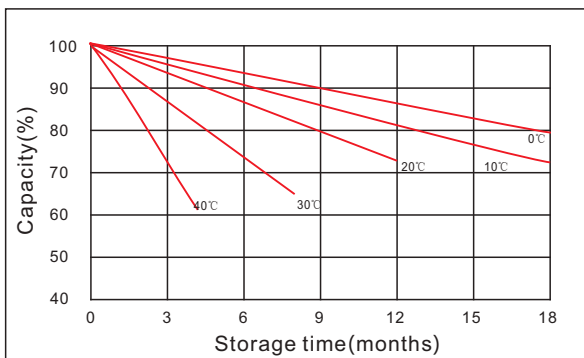
The effect of temperature on capacity



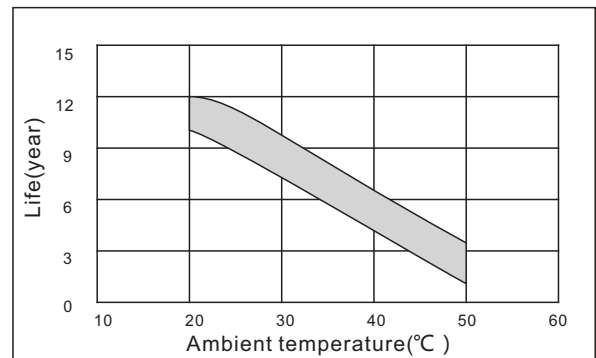
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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