

JM12-150

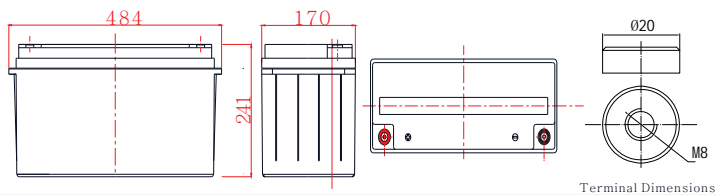


General Features

- 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: 484(L)×170(W)×241(H)×241(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	150Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 47.0kg (103.62lbs)
Container Material	ABS
Rated Capacity	150Ah ➔ 10Hour Rate (15.0A to 10.8V)
	123Ah ➔ 3Hour Rate (41.0A to 10.2V)
	101Ah ➔ 1Hour Rate (101A to 9.6V)
Internal resistance	Full charged at 25°C: 5.0 mΩ
Max. Discharge Current	1800A(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. 37.5A ; Recom. 15A
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)

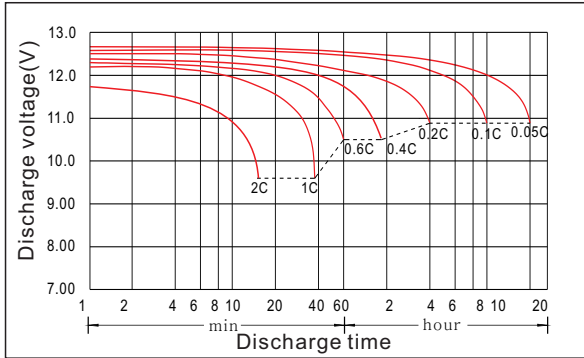
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	529	351	284	173	124	101	63.4	57.9	42.0	30.4	28.2	22.5	18.5	15.6	8.19
1.65V	519	348	275	170	123	100	63.0	57.6	41.6	30.2	27.9	22.3	18.4	15.5	8.15
1.70V	492	348	269	167	123	100	62.2	57.2	41.0	29.8	27.6	22.1	18.2	15.3	8.10
1.75V	452	342	261	165	120	98.2	61.8	56.3	40.6	29.6	27.3	21.9	18.1	15.2	8.07
1.80V	406	333	243	158	117	95.7	61.0	55.3	40.3	29.3	26.6	21.6	17.9	15.0	8.03
1.85V	362	308	217	144	109	88.6	59.4	52.5	37.9	28.5	25.3	21.0	17.2	14.6	7.89

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

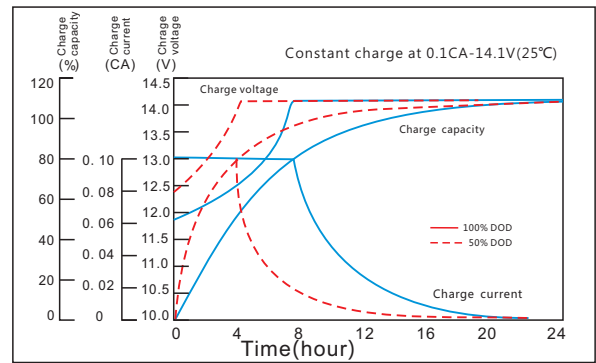
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	886	596	500	313	229	191	127	110	80.0	60.0	53.5	44.0	36.0	30.0	16.2
1.65V	852	590	491	310	227	189	125	109	78.9	59.4	53.2	43.6	35.7	29.7	16.1
1.70V	848	587	486	310	226	188	124	109	78.5	58.8	52.8	43.1	35.6	29.4	16.1
1.75V	791	583	483	308	224	187	123	108	78.1	58.2	52.5	42.7	35.3	29.1	16.0
1.80V	726	577	456	301	222	185	122	108	77.8	57.6	51.9	42.2	35.0	28.8	15.9
1.85V	648	537	408	276	206	172	120	103	73.9	56.8	49.5	41.7	33.8	28.4	15.8

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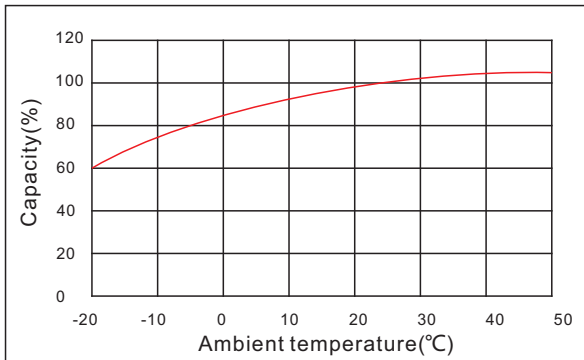
Discharge characteristic



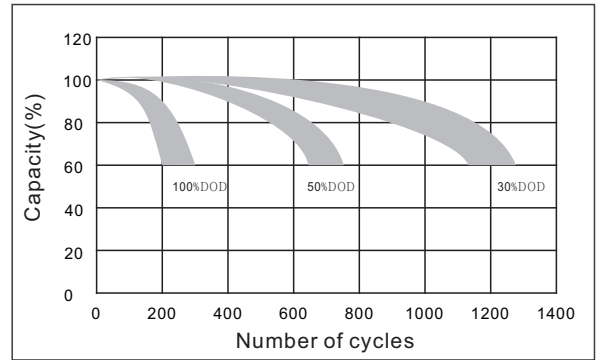
Charging characteristic



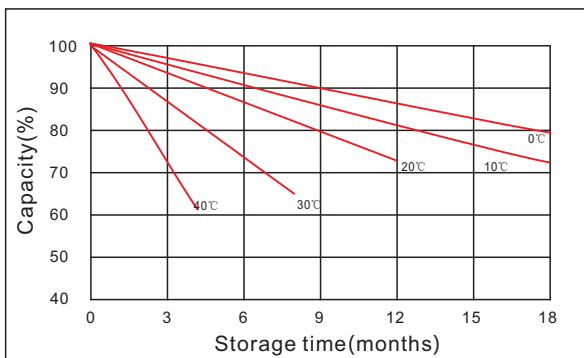
The effect of temperature on capacity



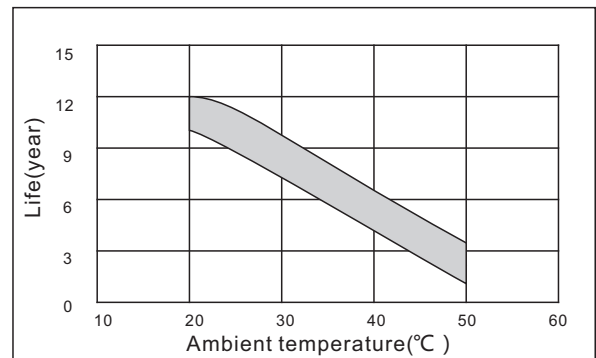
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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