

JM12-150



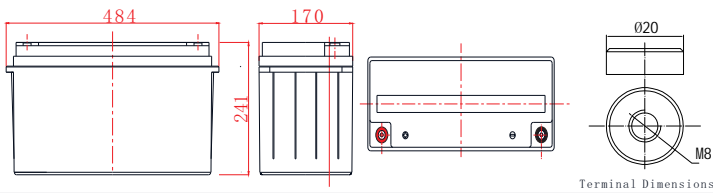
JM Series lead-acid battery

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 44.0kg (97.00lbs)
Container Material	ABS
Rated Capacity	150.0Ah 10Hour Rate (15.0A to 10.8V)
	123.0Ah 3Hour Rate (41.0A to 10.2V)
	101.0Ah 1Hour Rate (101.0A to 9.6V)
Internal resistance	Full charged at 25°C: 4.8 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)

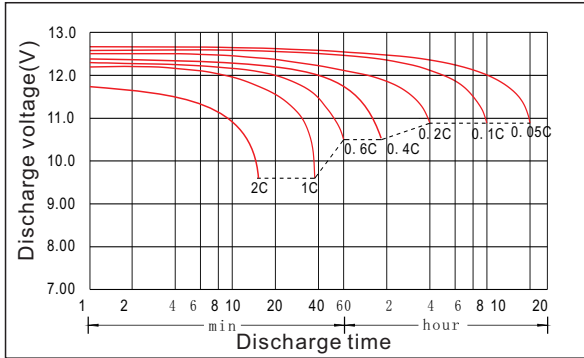
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	530	351	285	173	124	101	63.4	58.0	42.0	30.4	28.1	22.5	18.5	15.6	8.18
1.65V	510	348	276	171	123	100	63.0	57.7	41.6	30.2	28.0	22.3	18.3	15.5	8.15
1.70V	493	347	268	166	122	99.7	62.2	57.2	41.0	29.8	27.6	22.1	18.2	15.3	8.10
1.75V	452	342	261	165	120	98.2	61.8	56.4	40.5	29.6	27.3	21.9	18.1	15.2	8.07
1.80V	405	333	242	158	117	95.7	61.0	55.4	40.3	29.3	26.6	21.6	18.0	15.0	8.03
1.85V	362	309	216	144	109	88.7	59.4	52.5	38.0	28.5	25.3	21.0	17.2	14.6	7.88

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

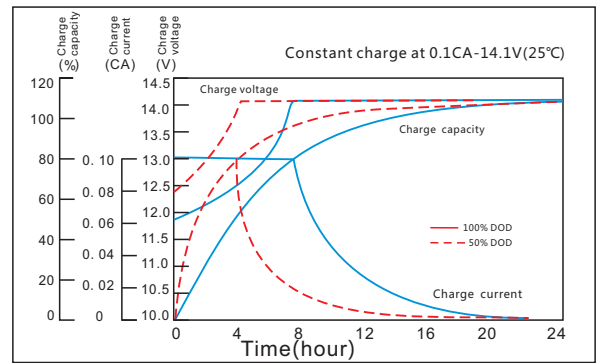
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	892	599	500	313	230	192	127	110	79.9	60.0	53.5	44.0	36.0	30.0	16.2
1.65V	855	593	496	312	228	190	125	109	78.9	59.4	53.1	43.6	35.7	29.7	16.1
1.70V	849	587	487	309	226	188	124	109	78.4	59.6	52.8	43.0	35.5	29.3	16.1
1.75V	792	583	481	308	224	187	123	108	77.9	58.4	52.5	42.8	35.5	29.2	16.0
1.80V	726	577	455	299	222	185	122	108	77.8	57.6	51.8	42.2	35.0	28.8	15.9
1.85V	650	537	404	274	206	172	119	103	73.9	56.6	49.5	41.5	33.8	28.3	15.8

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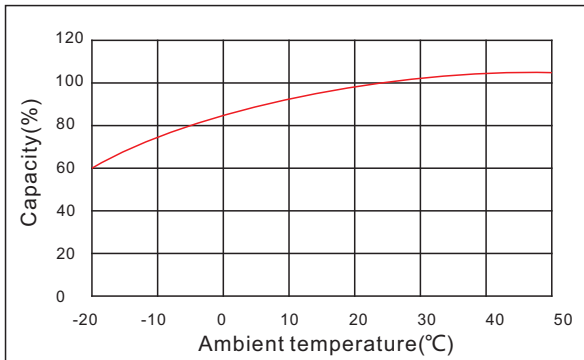
Discharge characteristic



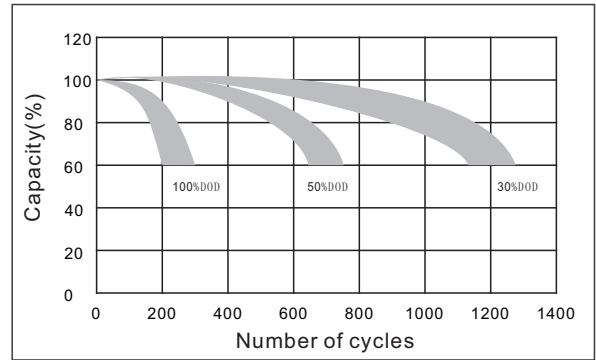
Charging characteristic



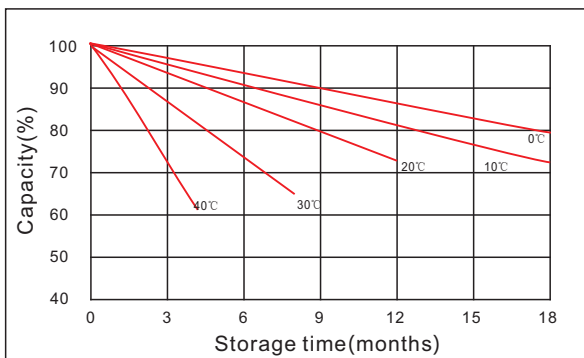
The effect of temperature on capacity



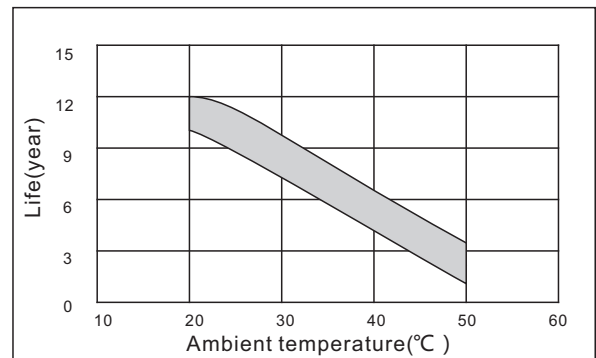
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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