



JM 12-150

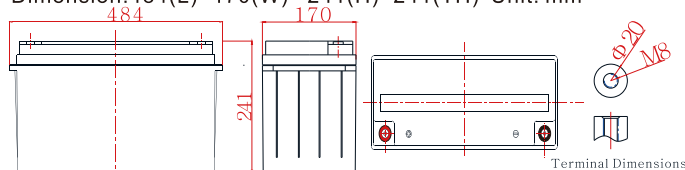


General Features

- › 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 42.5kg (93.8lbs)
Container Material	ABS
Rated Capacity	150Ah 10Hour Rate (15.0A to 10.8V)
	121Ah 3Hour Rate (40.3A to 10.8V)
	98.2Ah 1Hour Rate (98.2A to 10.5V)
Internal resistance	Full charged at 25°C: 3.5 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	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	529	284	173	101	57.9	42.0	28.2	18.5	15.6	8.19
1.65V	512	275	170	100	57.6	41.6	27.9	18.4	15.5	8.15
1.70V	492	269	167	100	57.2	41.0	27.6	18.2	15.3	8.10
1.75V	452	261	165	98.2	56.3	40.6	27.3	18.1	15.2	8.07
1.80V	406	243	158	95.7	55.3	40.3	26.6	17.9	15.0	8.03
1.85V	362	217	144	88.6	52.5	37.9	25.3	17.2	14.6	7.89

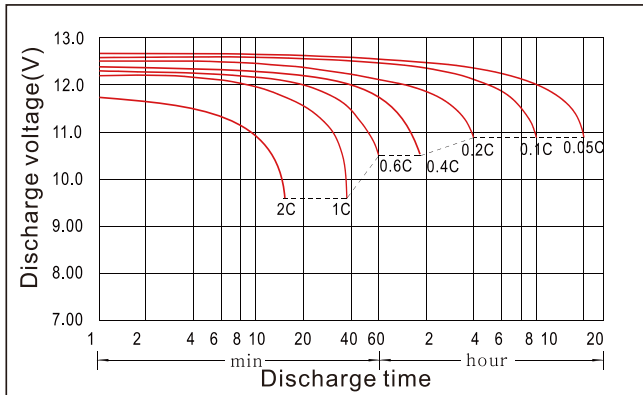
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	886	500	313	191	110	80.0	53.5	36.0	30.0	16.2
1.65V	852	491	310	189	109	78.9	53.2	35.7	29.7	16.1
1.70V	848	486	310	188	109	78.5	52.8	35.6	29.4	16.1
1.75V	791	483	308	187	108	78.1	52.5	35.3	29.1	16.0
1.80V	726	456	301	185	108	77.8	51.9	35.0	28.8	15.9
1.85V	648	408	276	172	103	73.9	49.5	33.8	28.4	15.8

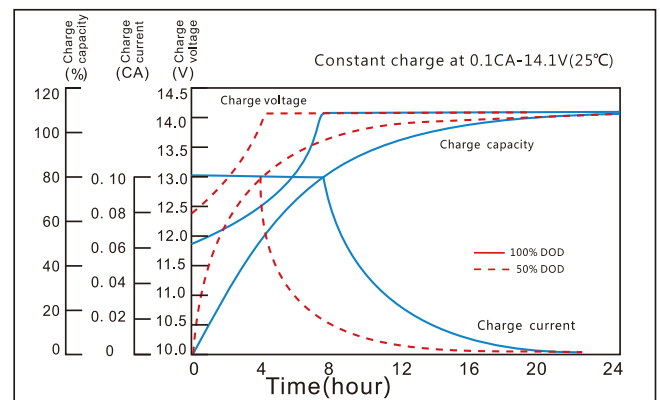


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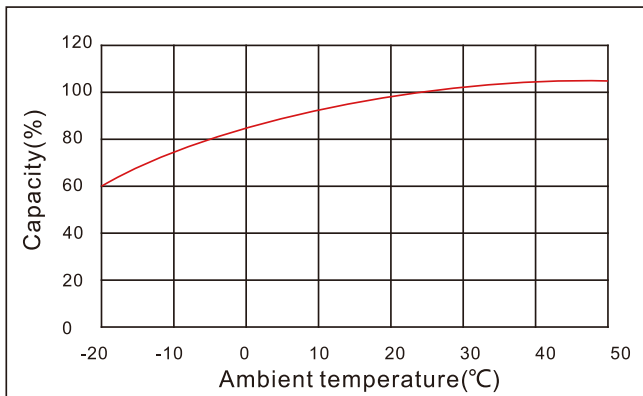
Discharge characteristic



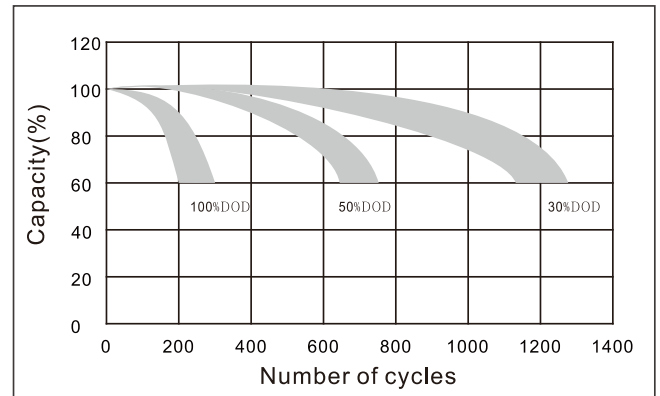
Charging characteristic



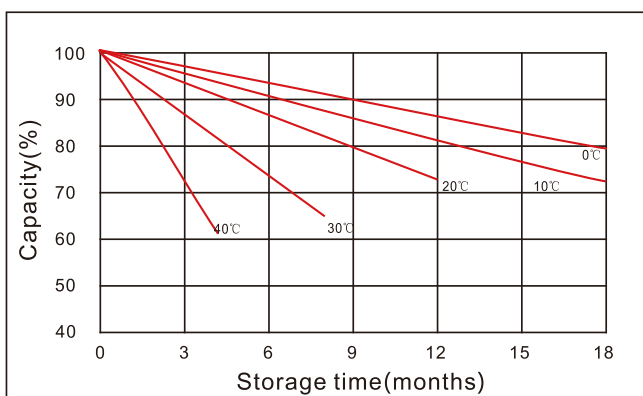
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

