

JM12-50

JM Series lead-acid battery

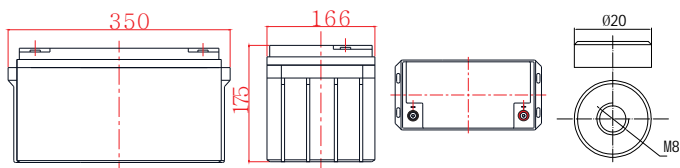


General Features

- 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: 350(L)×166(W)×175(H)×175(TH) Unit: mm



Terminal Dimensions

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	50Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 16.0kg (35.27lbs)
Container Material	ABS
Rated Capacity	50.0Ah → 10Hour Rate (5.00A to 10.8V)
	40.8Ah → 3Hour Rate (13.6A to 10.2V)
	33.6Ah → 1Hour Rate (33.6A to 9.6V)
Internal resistance	Full charged at 25°C: 11.8 mΩ
Max. Discharge Current	540A(5S) Discharge: -20 ~50°C(-4~ 122°F)
Operating Temperature	Charge: -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
	Charge current: Max. 11.3A ; Recom.4.5A
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)

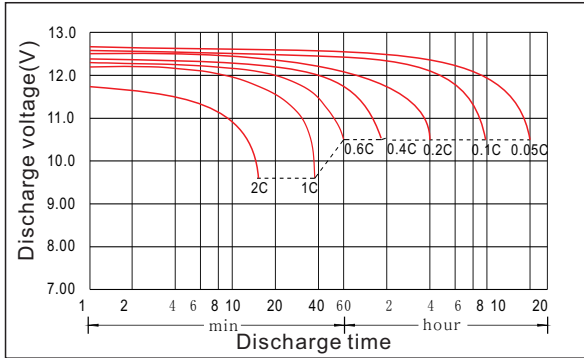
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	176	117	94.5	57.5	41.2	33.6	21.1	19.3	14.0	10.1	9.36	7.50	6.17	5.20	2.73
1.65V	171	117	91.8	56.6	41.1	33.5	20.9	19.2	13.9	10.0	9.27	7.42	6.13	5.15	2.72
1.70V	164	116	89.8	55.6	40.7	33.2	20.7	19.1	13.6	9.95	9.18	7.35	6.07	5.10	2.70
1.75V	151	114	86.9	55.1	40.1	32.7	20.5	18.7	13.5	9.85	9.09	7.28	6.03	5.05	2.69
1.80V	135	111	81.0	52.7	39.1	31.9	20.3	18.5	13.5	9.75	8.87	7.21	5.98	5.00	2.67
1.85V	121	103	72.2	48.1	36.2	29.5	19.7	17.5	12.6	9.46	8.43	6.99	5.73	4.85	2.63

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	295	198	166	105	76.3	63.6	42.2	36.5	26.6	20.0	17.8	14.7	12.0	10.0	5.40
1.65V	285	197	164	104	75.8	63.2	41.8	36.4	26.3	19.8	17.7	14.5	11.9	9.91	5.37
1.70V	283	195	162	104	75.1	62.6	41.4	36.3	26.2	19.6	17.6	14.4	11.8	9.82	5.35
1.75V	264	194	161	103	74.6	62.2	41.1	36.1	26.0	19.5	17.5	14.3	11.7	9.73	5.33
1.80V	242	193	152	100	74.0	61.7	40.7	36.0	25.9	19.3	17.3	14.1	11.6	9.64	5.30
1.85V	216	179	136	91.8	68.8	57.3	39.9	34.4	24.6	18.9	16.5	13.9	11.3	9.45	5.25

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Discharge characteristic



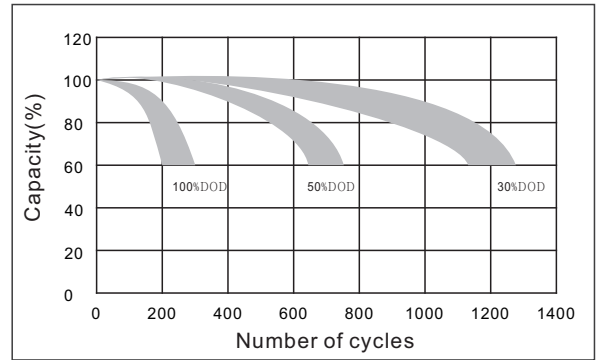
Charging characteristic



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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