

JM12-34

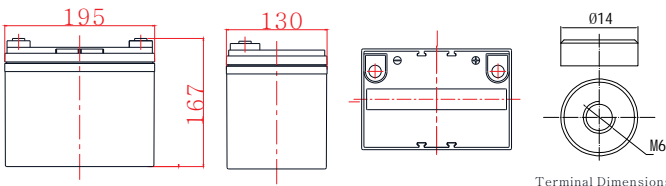


General Features

- 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: 195(L)×130(W)×163(H)×167(TH) Unit: mm



Terminal Dimensions

JM Series lead-acid battery

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	34Ah	
Design life	10 years	
Terminal	M6	
Approx. Weight	Approx 11.5kg (25.35lbs)	
Container Material	ABS	
Rated Capacity	34.0Ah	10Hour Rate (3.40A to 10.8V)
	27.9Ah	3Hour Rate (9.30A to 10.2V)
	22.8Ah	1Hour Rate (22.8A to 9.6V)
Internal resistance	Full charged at 25°C:	12.8 mΩ
Max. Discharge Current	408A(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. 8.5A ; Recom.3.4A	
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)

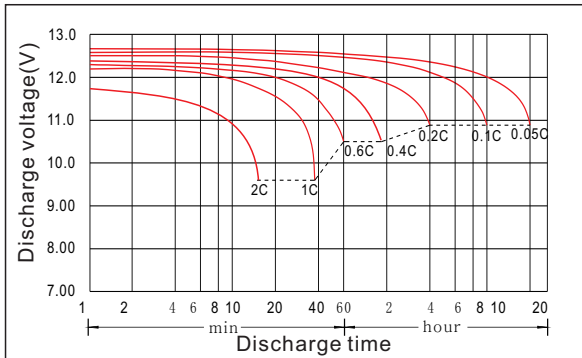
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	119	79.4	64.4	39.1	28.0	22.8	14.4	13.1	9.53	6.90	6.40	5.10	4.21	3.54	1.86
1.65V	117	79.1	62.5	38.6	27.9	22.7	14.3	13.1	9.42	6.84	6.32	5.06	4.16	3.51	1.85
1.70V	112	78.4	61.1	37.8	27.6	22.5	14.1	13.0	9.30	6.76	6.27	5.00	4.13	3.47	1.84
1.75V	103	77.4	59.1	37.5	27.3	22.2	13.9	12.8	9.20	6.69	6.20	4.94	4.10	3.43	1.84
1.80V	91.9	75.7	55.1	35.8	26.7	21.8	13.8	12.5	9.13	6.63	6.02	4.90	4.07	3.40	1.83
1.85V	82.0	70.0	49.2	32.7	24.7	20.1	13.4	11.9	8.60	6.42	5.73	4.75	3.90	3.29	1.80

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

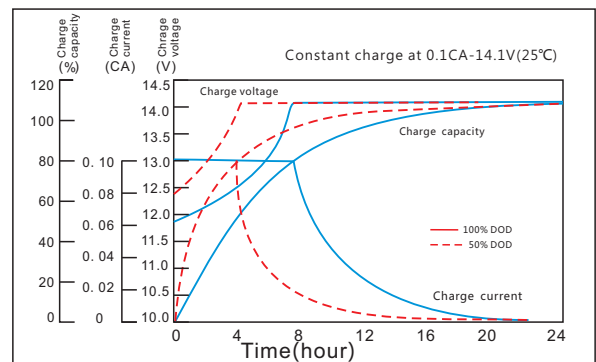
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	201	135	114	70.9	51.9	43.2	28.7	24.9	18.2	13.6	12.1	10.0	8.16	6.80	3.67
1.65V	193	134	112	70.1	51.5	42.9	28.4	24.8	18.0	13.5	12.0	9.87	8.10	6.73	3.66
1.70V	192	133	110	70.1	51.2	42.6	28.1	24.6	17.8	13.3	11.9	9.77	8.05	6.66	3.63
1.75V	180	132	109	69.8	50.7	42.3	27.8	24.5	17.7	13.2	11.9	9.67	7.99	6.60	3.61
1.80V	165	131	103	68.2	50.4	42.0	27.5	24.4	17.6	13.1	11.8	9.57	7.93	6.53	3.60
1.85V	148	122	92.4	62.6	46.7	39.0	27.1	23.4	16.8	12.9	11.3	9.43	7.65	6.43	3.57

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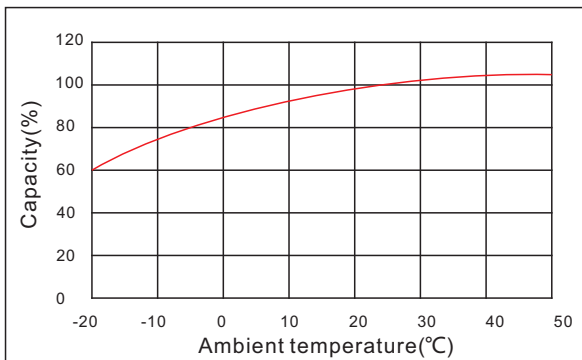
Discharge characteristic



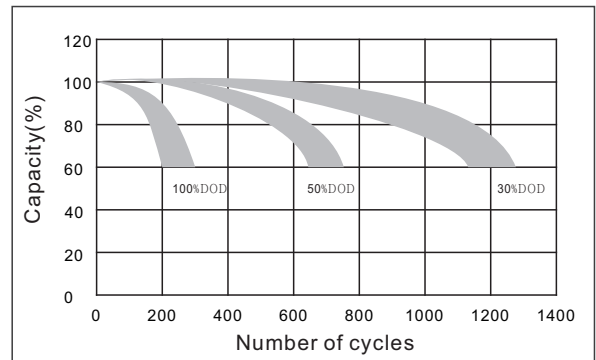
Charging characteristic



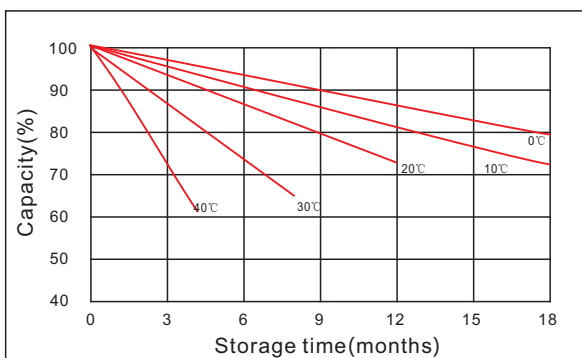
The effect of temperature on capacity



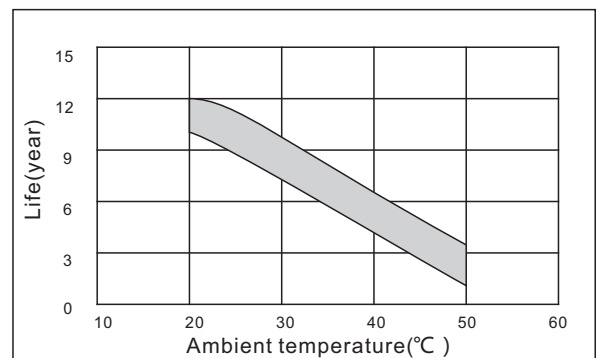
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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