

JM12-33



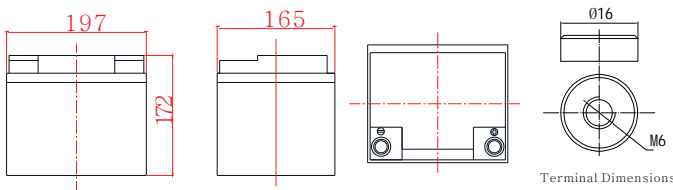
JM Series lead-acid battery

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: 197(L)×165(W)×172(H)×172(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	33Ah		
Design life	10 years		
Terminal	M6		
Approx. Weight	Approx 12.0kg (26.46lbs)		
Container Material	ABS		
Rated Capacity	33.0Ah	10Hour Rate	(3.30A to 10.8V)
	27.1Ah	3Hour Rate	(9.02A to 10.2V)
	22.2Ah	1Hour Rate	(22.2A to 9.6V)
Internal resistance	Full charged at 25°C: 13.0 mΩ		
Max. Discharge Current	396A(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. 8.25A ; Recom.3.3A		
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)

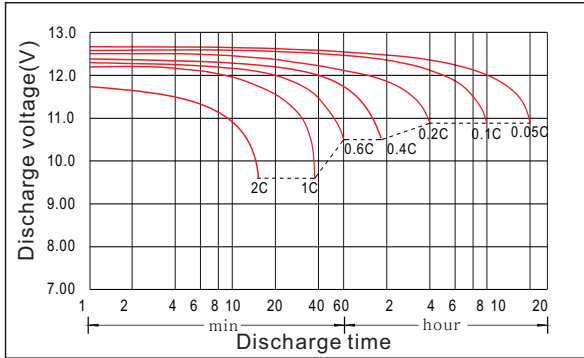
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	116	77.3	62.5	38.0	27.2	22.2	13.9	12.7	9.25	6.69	6.21	4.94	4.08	3.43	1.80
1.65V	113	76.9	60.6	37.4	27.1	22.1	13.8	12.7	9.15	6.63	6.14	4.90	4.04	3.43	1.79
1.70V	108	76.2	59.3	36.7	26.9	21.9	13.7	12.6	9.02	6.57	6.08	4.86	4.01	3.37	1.78
1.75V	100	75.2	57.3	36.4	26.5	21.6	13.5	12.4	8.93	6.49	6.02	4.80	3.98	3.33	1.78
1.80V	89.2	73.4	53.5	34.8	25.9	21.1	13.4	12.2	8.86	6.44	5.85	4.76	3.95	3.30	1.77
1.85V	79.6	67.9	47.7	31.8	23.9	19.5	13.0	11.5	8.34	6.24	5.56	4.61	3.78	3.20	1.74

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	195	131	110	68.8	50.4	42.0	27.9	24.1	17.6	13.2	11.8	9.68	7.92	6.60	3.56
1.65V	188	130	108	68.1	50.0	41.7	27.6	24.0	17.4	13.1	11.7	9.58	7.86	6.53	3.55
1.70V	187	129	107	68.1	49.7	41.4	27.3	23.9	17.3	12.9	11.6	9.49	7.82	6.47	3.53
1.75V	174	128	106	67.8	49.2	41.0	27.0	23.8	17.2	12.8	11.5	9.39	7.76	6.40	3.51
1.80V	160	127	100	66.2	48.8	40.7	26.8	23.7	17.1	12.7	11.4	9.30	7.69	6.34	3.50
1.85V	143	118	89.7	60.7	45.4	37.8	26.3	22.7	16.3	12.5	10.9	9.15	7.43	6.24	3.47

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Discharge characteristic



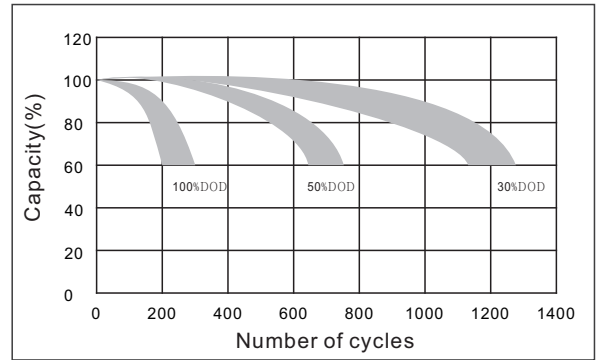
Charging characteristic



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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