

JM12-42



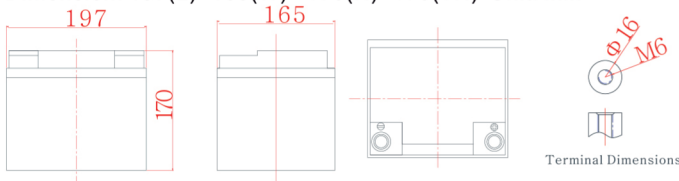
JM Series lead-acid battery

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)×170(H)×170(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	42Ah		
Design life	10 years		
Terminal	M6		
Approx. Weight	Approx 13.2kg (29.1lbs)		
Container Material	ABS		
Rated Capacity	42.0Ah	10Hour Rate	(4.00A to 10.8V)
	32.1Ah	3Hour Rate	(10.7A to 10.8V)
	26.2Ah	1Hour Rate	(26.2A to 10.5V)
Internal resistance	Full charged at 25°C:	12.2 mΩ	
Max. Discharge Current	480A(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. 10.0A ; Recom.4.0A		
Charge Method (25 °C)	Float Charge:	13.5-13.8V,recom.13.5V(-18mV/ °C)	
	Equalize charge:	13.8-14.1V,recom.14.1V(-24mV/ °C)	
	Cycle charge:	14.4-15.0V,recom.14.4V(-30mV/ °C)	
Self discharge	3% of capacity declined per month at 25°C		

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

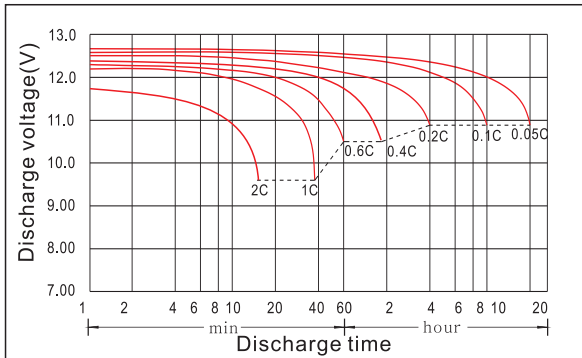
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	141	75.7	46.1	26.9	15.4	11.2	7.53	4.94	4.16	2.18
1.65V	137	73.4	45.3	26.8	15.4	11.1	7.45	4.90	4.12	2.17
1.70V	131	71.9	44.5	26.6	15.2	10.9	7.37	4.86	4.08	2.16
1.75V	121	69.5	44.1	26.2	15.0	10.8	7.29	4.82	4.04	2.15
1.80V	108	64.8	42.2	25.5	14.7	10.7	7.10	4.78	4.00	2.14
1.85V	96.4	57.8	38.5	23.6	14.0	10.1	6.74	4.58	3.88	2.10

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

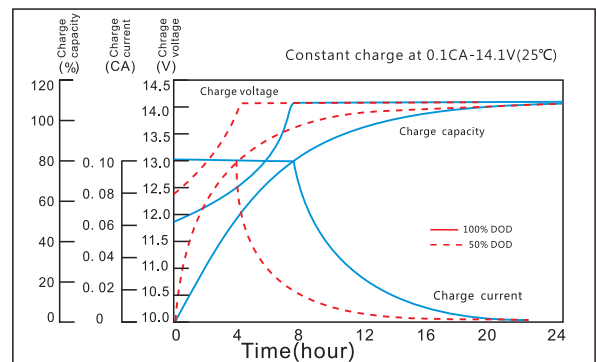
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	236	133	83.3	50.9	29.2	21.3	14.3	9.60	8.00	4.32
1.65V	227	131	82.6	50.5	29.1	21.1	14.2	9.52	7.92	4.30
1.70V	226	129	82.6	50.1	29.0	20.9	14.1	9.48	7.84	4.28
1.75V	211	129	82.2	49.7	28.9	20.8	14.0	9.41	7.76	4.26
1.80V	194	122	80.2	49.4	28.8	20.7	13.8	9.33	7.68	4.24
1.85V	173	109	73.5	45.8	27.5	19.7	13.2	9.01	7.56	4.20

JM12-42

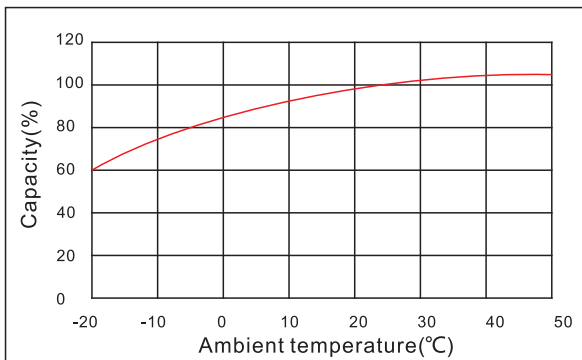
Discharge characteristic



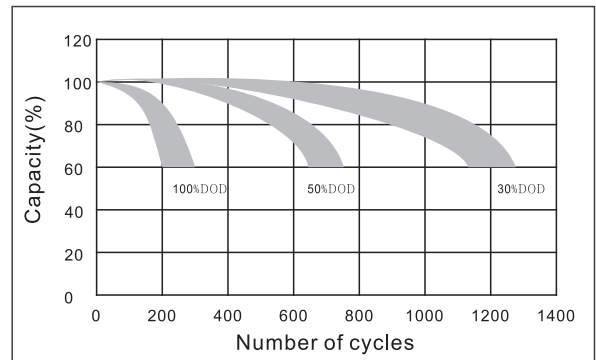
Charging characteristic



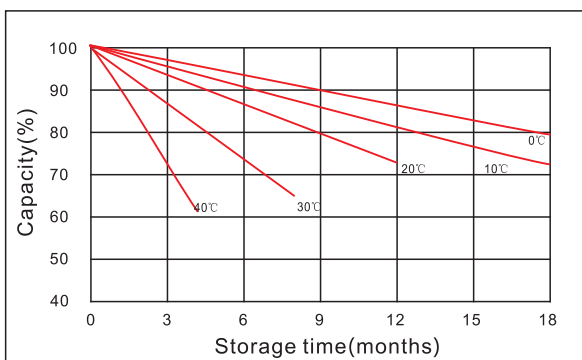
The effect of temperature on capacity



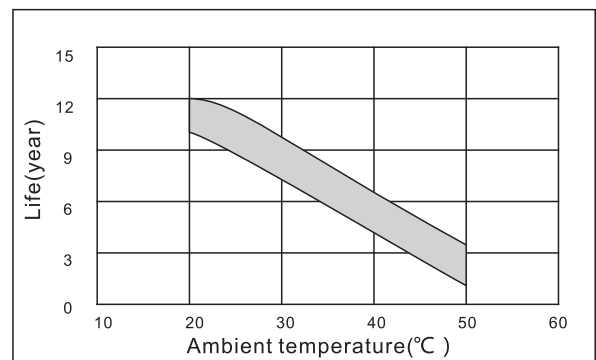
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



www.kijo.com.cn info@kijo.com.cn

Jiangxi Jingjiu Power Science&Technology Co. Ltd.
Add: 1388 Fushan No.1 Street, Xiaolan Economic Development Zone, Nanchang City, Jiangxi Province, China.

+86-791-85982779 +86-791-85989842

Jiangxi Jingjiu Power (Jiujiang) Co. Ltd.
Add: Xiwang Rd, Aicheng Industrial Park, Yongxiu Country, Jiujiang City, Jiangxi Province, China.

