京九电源
KIJO BATTERY

JLG12-50

JLG Series Pure GEL battery

Applications

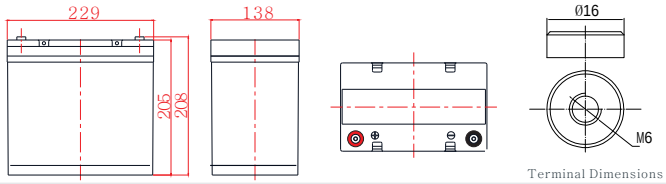
- Solar / wind energy and other new energy storage
- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting、Auto control system
- Other general purpose

General Features

- Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- Long cycle life, excellent deep cycle discharge ability
- Excellent charge acceptance ability
- Precision sealing technology
- Long life

RoHS

Dimension:229(L)×138(W) ×205(H)×208(TH) Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V	
Nominal Capacity	50Ah	
Design life	10 years	
Terminal	M6	
Approx. Weight	Approx 16.3kg (35.9lbs)	
Container Material	ABS	
Rated Capacity	50.0Ah	20Hour Rate (2.50A to 10.5V)
	37.5Ah	3Hour Rate (12.5A to 10.2V)
	27.5Ah	1Hour Rate (27.5A to 9.6V)
Internal resistance	Full charged at 25°C:	13.5 mΩ
Max. Discharge Current	600A(5S)	
Operating Temperature	Discharge:	-40 ~60℃(-40~ 140°F)
	Charge:	-20 ~50℃(-4~ 122°F)
	Storage:	-20 ~50℃(-4~ 122°F)
Charge Method (25 °C)	Charge current:	Max. 12.5A ; Recom.5.0A
	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℃, 77℉)

FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	45.0	27.5	15.8	12.8	8.59	5.55	4.68	2.54
1.65V	44.1	27.3	15.7	12.7	8.54	5.50	4.64	2.53
1.70V	43.3	27.1	15.6	12.5	8.43	5.45	4.59	2.51
1.75V	42.9	26.7	15.3	12.4	8.33	5.41	4.55	2.50
1.80V	41.1	26.1	15.1	12.3	8.13	5.40	4.50	2.49
1.85V	37.5	24.1	14.3	11.6	7.72	5.15	4.37	2.44

Constant Power Discharge Characteristics Unit: W/cell (25℃, 77℉)

FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	81.4	52.2	29.8	24.4	16.3	10.8	9.00	5.02
1.65V	80.7	51.7	29.7	24.1	16.2	10.7	8.90	5.00
1.70V	80.5	51.3	29.6	23.9	16.1	10.6	8.80	4.97
1.75V	80.1	50.8	29.5	23.8	16.0	10.5	8.75	4.95
1.80V	77.9	50.4	29.4	23.7	15.8	10.4	8.65	4.93
1.85V	71.4	46.7	28.0	22.6	15.1	10.3	8.50	4.88

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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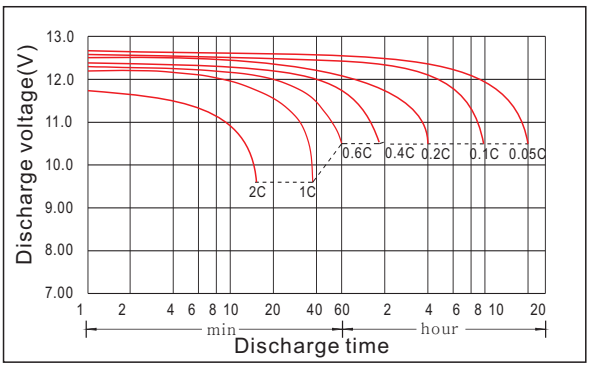
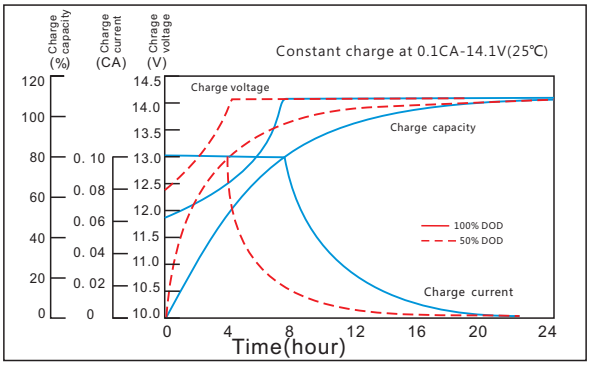
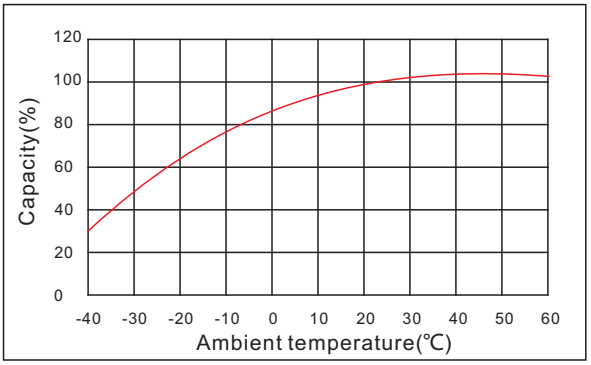
Discharge characteristic



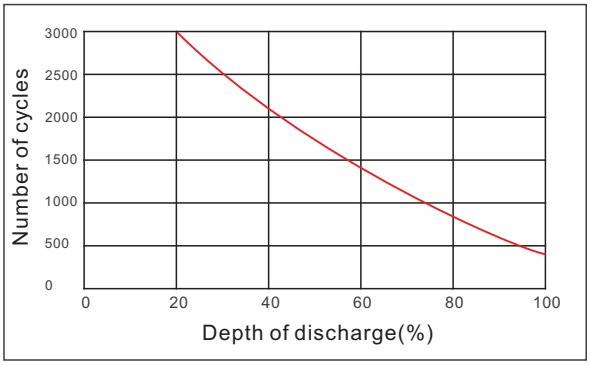
Charging characteristic



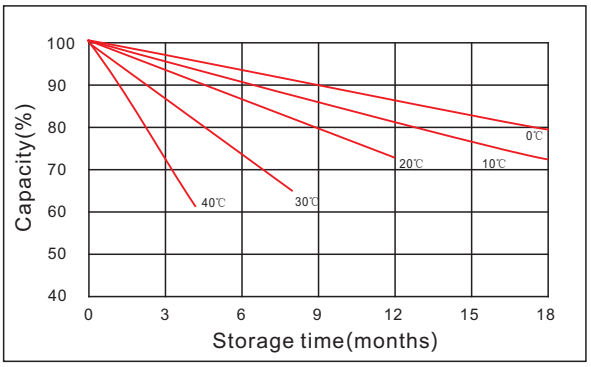
The effect of temperature on capacity



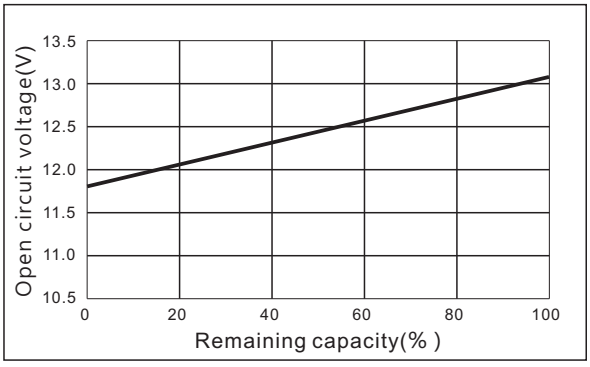
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



www.kijo.com.cn info@kijo.com.cn +86-791-85982779 +86-791-85989842

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

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