

JLG12-40

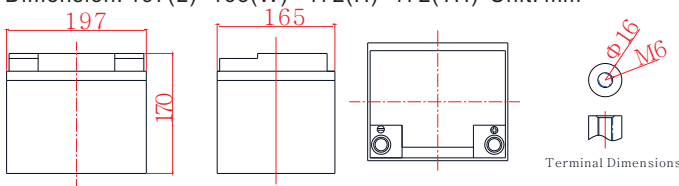


General Features

- › 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



Dimension: 197(L)×165(W)×172(H)×172(TH) Unit: mm



Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	40Ah
Design life	15 years
Terminal	M6
Approx. Weight	Approx 12.5kg (27.56lbs)
Container Material	ABS
Rated Capacity	40.0Ah → 20Hour Rate (2.00A to 10.5V)
	37.6Ah → 10Hour Rate (3.76A to 10.5V)
	33.9Ah → 5Hour Rate (6.78A to 10.5V)
Internal resistance	Full charged at 25°C: 12.5 mΩ
Max. Discharge Current	480A(5S)
Operating Temperature	Discharge: -40 ~60°C(-40~ 140°F)
	Charge: -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
Charge current:	Max. 10A ; Recom.4.0A
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)

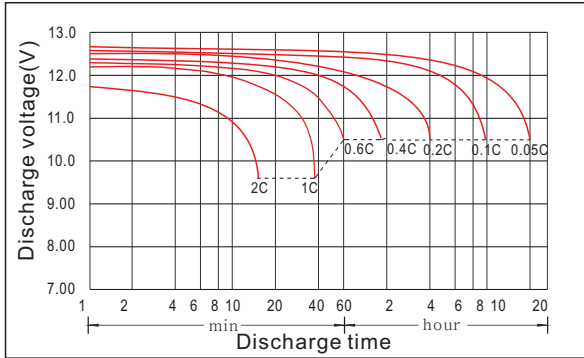
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	131.10	70.43	42.84	25.05	14.36	10.43	7.00	4.59	3.87	2.03
1.65V	127.09	68.28	42.11	24.90	14.29	10.32	6.93	4.56	3.83	2.02
1.70V	122.02	66.82	41.38	24.72	14.18	10.17	6.85	4.52	3.79	2.01
1.75V	112.21	64.64	41.01	24.35	13.96	10.06	6.78	4.48	3.76	2.00
1.80V	100.58	60.26	39.23	23.73	13.71	9.99	6.60	4.45	3.72	1.99
1.85V	89.68	53.74	35.80	21.98	13.01	9.41	6.27	4.26	3.61	1.96

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

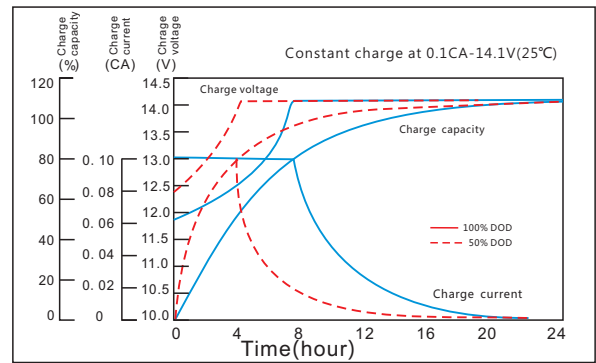
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	219.76	124.06	77.51	47.36	27.16	19.83	13.27	8.93	7.44	4.02
1.65V	211.37	121.87	76.78	46.99	27.09	19.58	13.20	8.86	7.37	4.00
1.70V	210.28	120.41	76.78	46.63	26.98	19.47	13.09	8.82	7.29	3.98
1.75V	196.10	119.69	76.41	46.26	26.83	19.36	13.01	8.75	7.22	3.96
1.80V	180.09	113.16	74.59	45.90	26.76	19.29	12.87	8.67	7.14	3.94
1.85V	160.81	101.13	68.39	42.62	25.56	18.34	12.29	8.38	7.03	3.91

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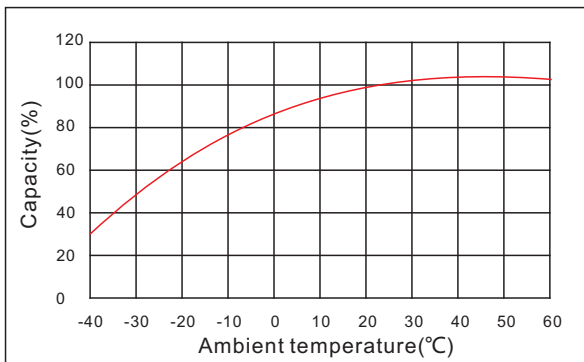
Discharge characteristic



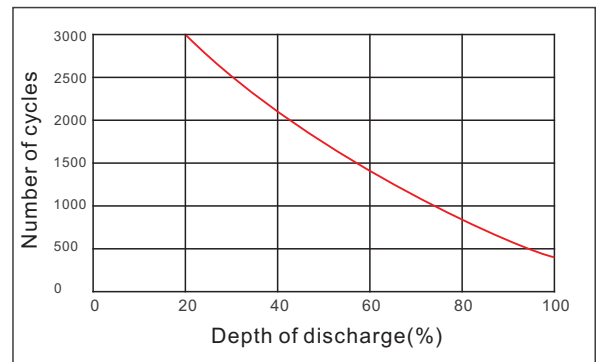
Charging characteristic



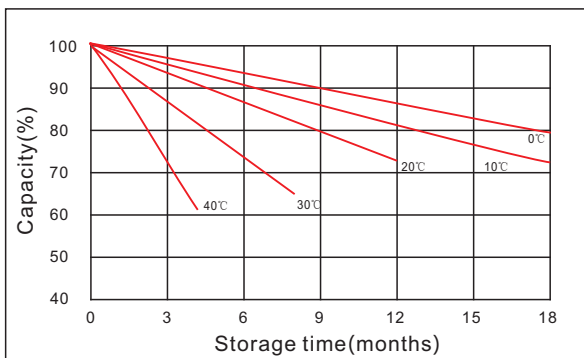
The effect of temperature on capacity



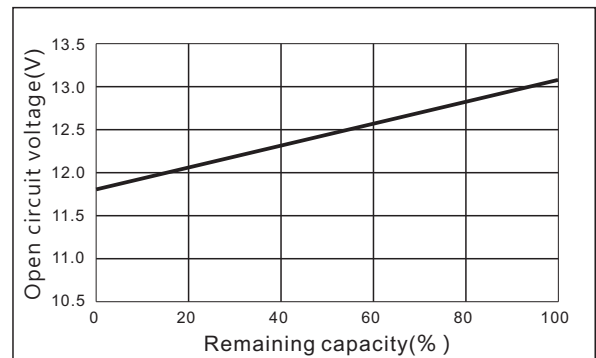
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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

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.

