

JLG12-50

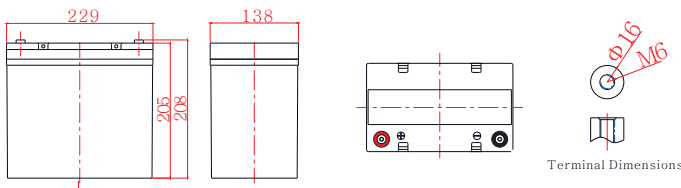


General Features

- › 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: 229(L)×138(W)×205(H)×208(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	50Ah
Design life	15 years
Terminal	M6
Approx. Weight	Approx 16.5kg (36.4lbs)
Container Material	ABS
Rated Capacity	55.00Ah 20Hour Rate (2.75A to 10.5V)
	50.00Ah 10Hour Rate (5.00A to 10.5V)
	46.6Ah 5Hour Rate (9.32A to 10.5V)
Internal resistance	Full charged at 25°C: 9.0 mΩ
Max. Discharge Current	660A(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. 13.8A ; Recom.5.5A
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)

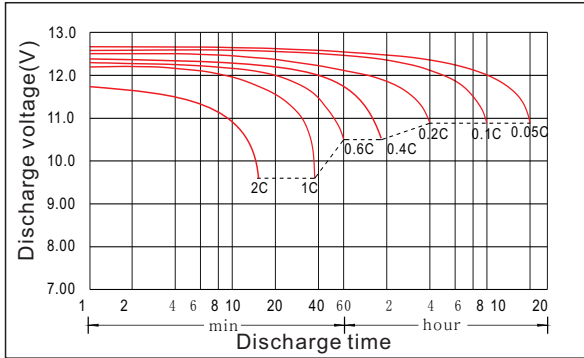
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	180.26	96.85	58.90	34.44	19.75	14.34	9.62	6.32	5.15	2.79
1.65V	174.74	93.89	57.90	34.24	19.65	14.19	9.52	6.27	5.10	2.78
1.70V	167.78	91.88	56.89	33.99	19.50	13.99	9.42	6.22	5.05	2.76
1.75V	154.29	88.88	56.39	33.48	19.20	13.84	9.32	6.17	5.00	2.75
1.80V	138.30	82.86	53.94	32.63	18.85	13.73	9.07	6.11	4.95	2.74
1.85V	123.31	73.89	49.22	30.23	17.90	12.93	8.62	5.86	4.79	2.69

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

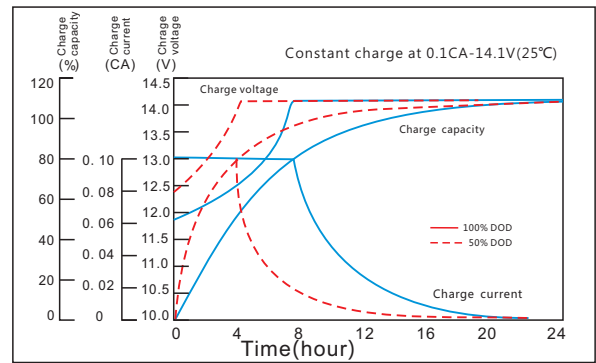
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	302.17	170.58	106.57	65.11	37.34	27.27	18.25	12.28	10.23	5.52
1.65V	290.64	167.57	105.57	64.61	37.24	26.92	18.15	12.18	10.13	5.50
1.70V	289.13	165.57	105.57	64.11	37.09	26.77	18.00	12.13	10.03	5.47
1.75V	269.63	164.57	105.07	63.61	36.89	26.62	17.90	12.03	9.92	5.45
1.80V	247.63	155.59	102.56	63.11	36.79	26.52	17.69	11.93	9.82	5.42
1.85V	221.11	139.05	94.04	58.60	35.14	25.21	16.89	11.52	9.67	5.37

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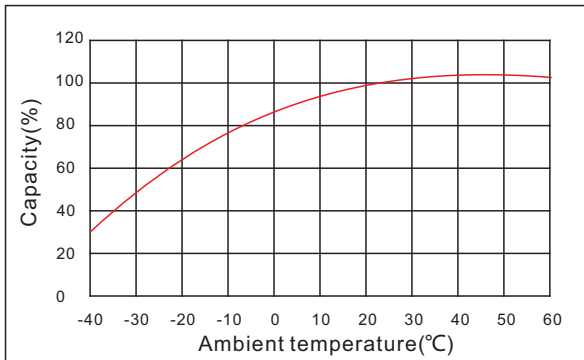
Discharge characteristic



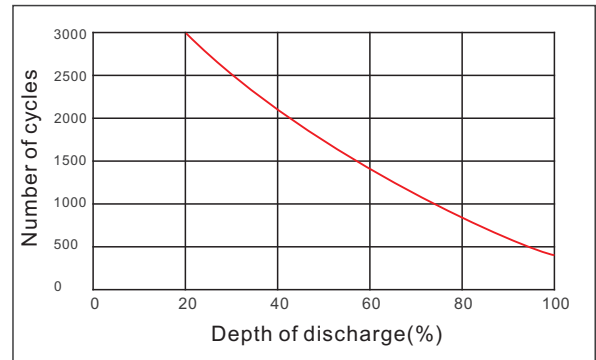
Charging characteristic



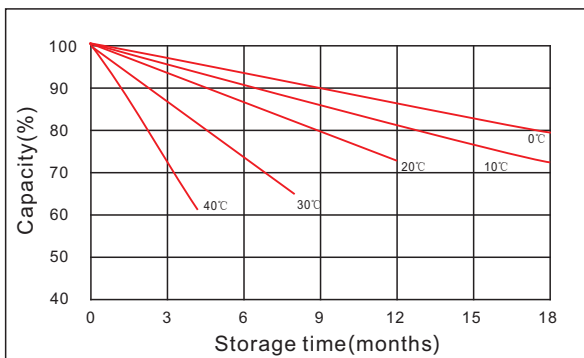
The effect of temperature on capacity



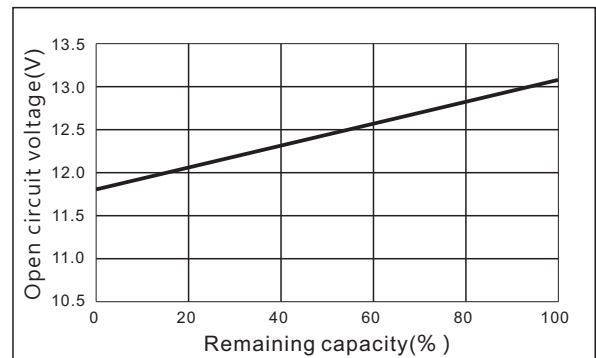
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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