

JLG12-70



JLG Series Pure GEL battery

Applications

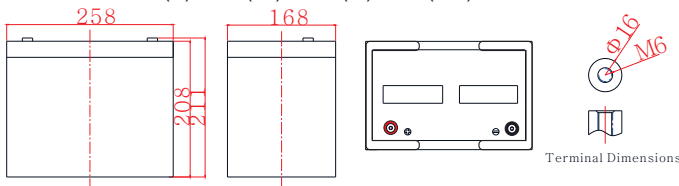
- > Solar / wind energy and other new energy storage
- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting、Auto control system
- > Other general purpose

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



Dimension: 258(L) × 168(W) × 212(H) × 215(TH) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	70Ah
Design life	15 years
Terminal	M6
Approx. Weight	Approx 22.5kg (49.6lbs)
Container Material	ABS
Rated Capacity	75Ah → 20Hour Rate (3.77A to 10.5V)
	70Ah → 10Hour Rate (7.07A to 10.5V)
	64Ah → 5Hour Rate (12.8A to 10.5V)
Internal resistance	Full charged at 25°C: 8.0 mΩ
Max. Discharge Current	840A(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. 17.5A ; Recom.7.0A
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)

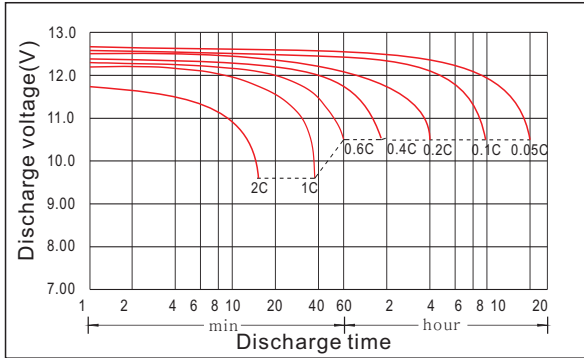
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	247	133	80.6	47.1	27.0	19.6	13.2	8.65	7.28	3.82
1.65V	239	128	79.2	46.9	26.9	19.4	13.0	8.58	7.21	3.80
1.70V	230	126	77.9	46.5	26.7	19.1	12.9	8.51	7.14	3.78
1.75V	211	122	77.2	45.8	26.3	18.9	12.8	8.44	7.07	3.77
1.80V	189	113	73.8	44.7	25.8	18.8	12.4	8.37	7.00	3.75
1.85V	169	101	67.4	41.4	24.5	17.7	11.8	8.02	6.79	3.68

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

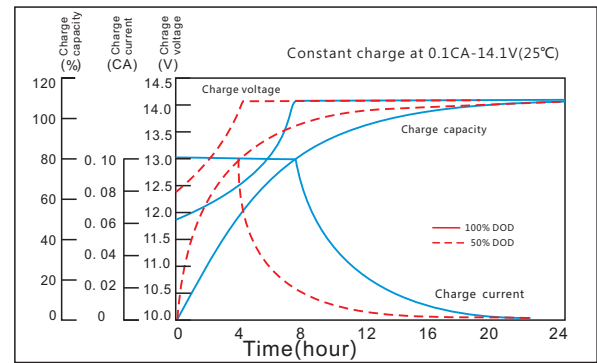
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	414	233	146	89.1	51.1	37.3	25.0	16.8	14.0	7.56
1.65V	398	229	144	88.4	51.0	36.8	24.8	16.7	13.9	7.53
1.70V	396	227	144	87.7	50.8	36.6	24.6	16.6	13.7	7.49
1.75V	369	225	144	87.1	50.5	36.4	24.5	16.5	13.6	7.46
1.80V	339	213	140	86.4	50.4	36.3	24.2	16.3	13.4	7.42
1.85V	303	190	129	80.2	48.1	34.5	23.1	15.8	13.2	7.35

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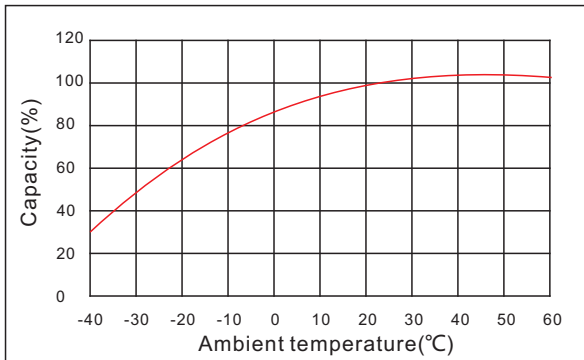
Discharge characteristic



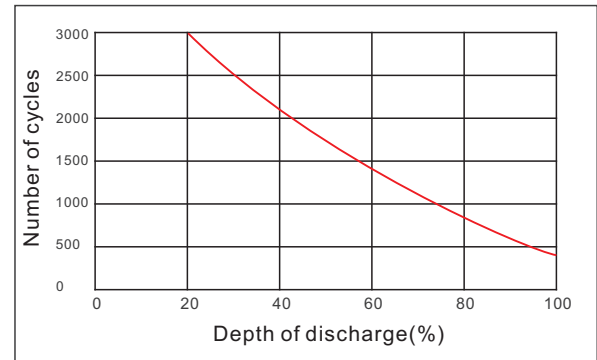
Charging characteristic



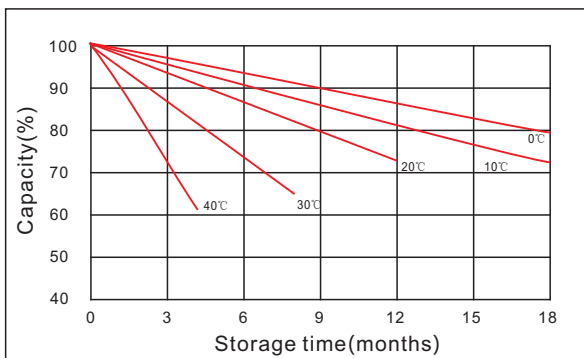
The effect of temperature on capacity



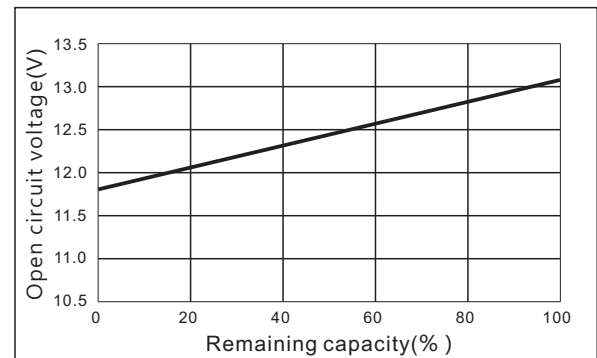
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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