

# JLG12-50

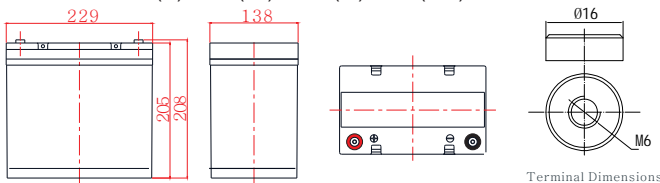


## General Features

- › 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



# 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

## 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°C (-40~ 140°F)
	Charge: -20 ~50°C (-4~ 122°F)
	Storage: -20 ~50°C (-4~ 122°F)
Charge current:	Max. 12.5A ; Recom. 5.0A
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)

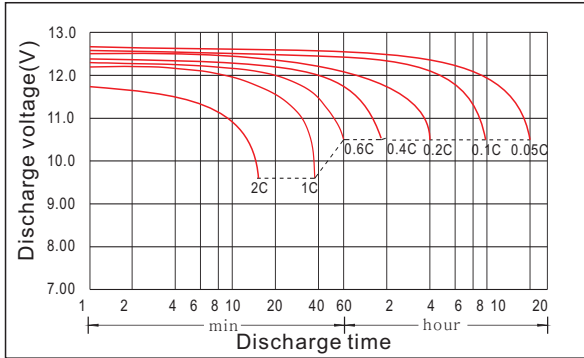
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	45.0	27.5	15.8	12.8	8.59	5.55	4.68	2.54
1.65V	44.1	27.3	15.7	12.7	8.54	5.50	4.64	2.53
1.70V	43.3	27.1	15.6	12.5	8.43	5.45	4.59	2.51
1.75V	42.9	26.7	15.3	12.4	8.33	5.41	4.55	2.50
1.80V	41.1	26.1	15.1	12.3	8.13	5.40	4.50	2.49
1.85V	37.5	24.1	14.3	11.6	7.72	5.15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

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

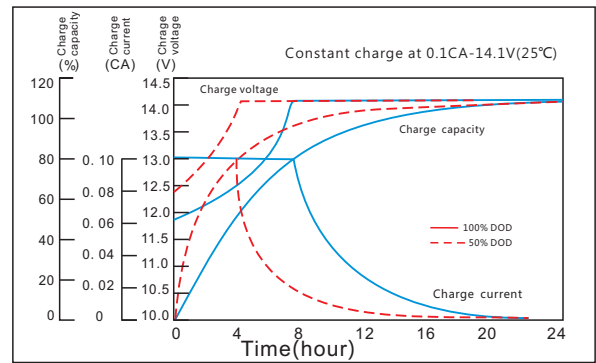
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	81.4	52.2	29.8	24.4	16.3	10.8	9.00	5.02
1.65V	80.7	51.7	29.7	24.1	16.2	10.7	8.90	5.00
1.70V	80.5	51.3	29.6	23.9	16.1	10.6	8.80	4.97
1.75V	80.1	50.8	29.5	23.8	16.0	10.5	8.75	4.95
1.80V	77.9	50.4	29.4	23.7	15.8	10.4	8.65	4.93
1.85V	71.4	46.7	28.0	22.6	15.1	10.3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

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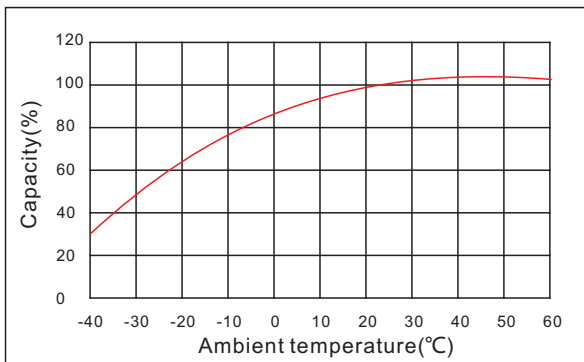
**Discharge characteristic**



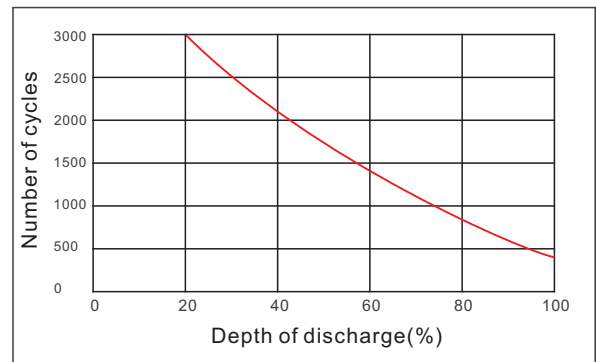
**Charging characteristic**



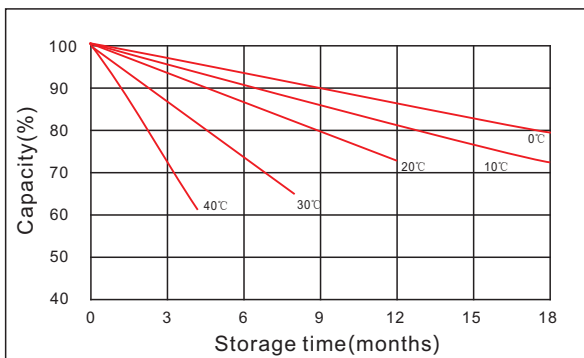
**The effect of temperature on capacity**



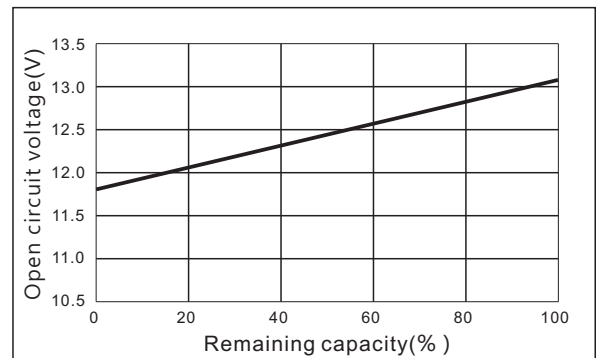
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**Curves of open circuit voltage vs. capacity**



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