

JLG12-100

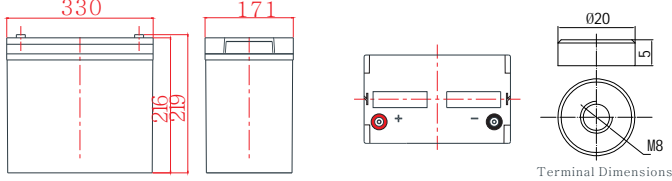


General Features

- 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



Dimension: 330(L) × 171(W) × 216(H) × 219(TH) Unit: mm



JLG Series 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	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 29.5kg (65.04lbs)
Container Material	ABS
Rated Capacity	100Ah 20Hour Rate (5.00A to 10.5V)
	79.8Ah 3Hour Rate (26.6A to 10.2V)
	61.7Ah 1Hour Rate (61.7A to 9.6V)
Internal resistance	Full charged at 25°C: 6 mΩ
Max. Discharge Current	950A(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. 19.0A ; Recom. 9.50A
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

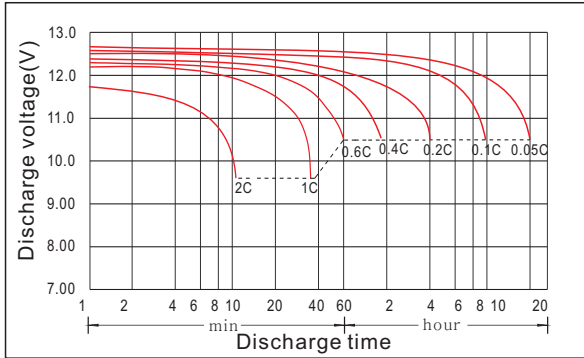
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	260	220	166	100	77.6	61.7	41.5	38.0	27.3	19.8	18.3	14.6	12.1	10.2	5.22
1.65V	256	213	158	98.3	76.6	61.2	41.0	37.6	27.1	19.6	18.2	14.5	12.0	10.1	5.15
1.70V	241	211	156	96.6	75.6	60.7	40.5	37.1	26.6	19.4	18.0	14.4	11.9	9.95	5.07
1.75V	233	203	154	95.9	75.1	60.0	40.2	36.6	26.3	19.2	17.8	14.2	11.8	9.88	5.00
1.80V	223	189	141	91.7	72.2	58.3	39.8	35.9	26.1	19.0	17.3	14.0	11.7	9.76	4.93
1.85V	202	175	128	83.7	66.3	54.1	38.5	34.1	24.6	18.5	16.4	13.7	11.2	9.49	4.80

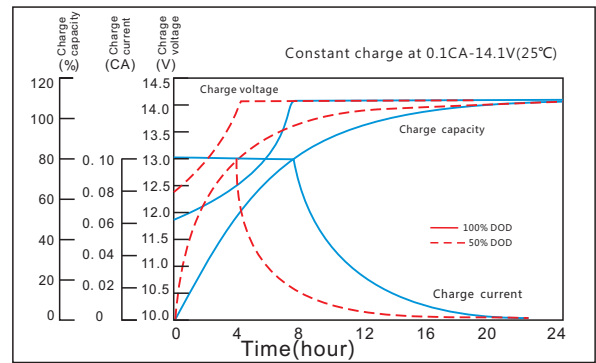
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	442	384	299	180	143	118	80.4	73.8	53.0	38.4	35.6	28.5	23.5	19.9	10.3
1.65V	435	373	284	177	142	117	79.5	72.9	52.5	38.0	35.3	28.3	23.3	19.6	10.1
1.70V	409	370	281	174	140	116	78.5	71.9	51.6	37.6	34.9	27.9	23.2	19.4	9.94
1.75V	396	355	277	173	139	115	78.1	70.9	51.1	37.3	34.5	27.6	23.0	19.3	9.80
1.80V	380	330	254	165	134	111	77.1	69.6	50.6	37.0	33.5	27.3	22.7	19.0	9.66
1.85V	346	309	231	151	123	104	75.1	66.6	48.0	36.1	32.1	26.6	21.9	18.6	9.47

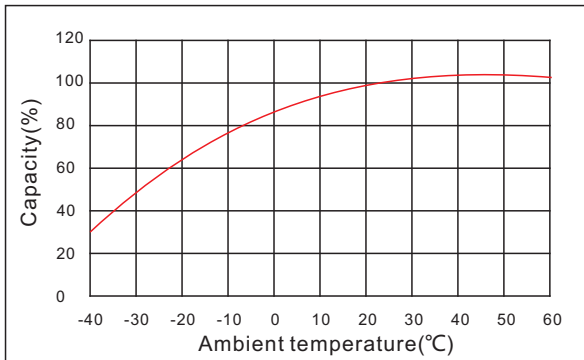
Discharge characteristic



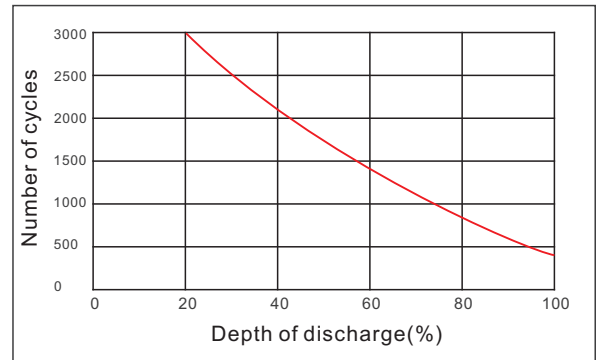
Charging characteristic



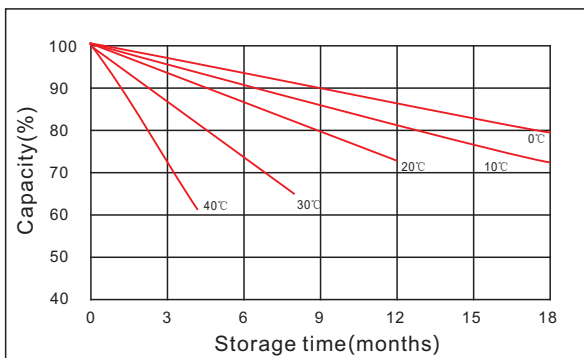
The effect of temperature on capacity



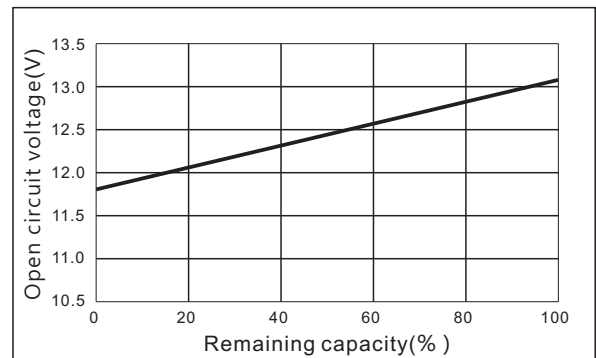
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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