

JLG12-100



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

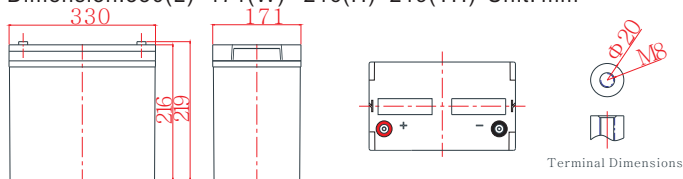
Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 29.5kg (65.04lbs)
Container Material	ABS
Rated Capacity	100Ah 20Hour Rate (5.00A to 10.5V)
	93.6Ah 10Hour Rate (9.36A to 10.5V)
	83.0Ah 5Hour Rate (16.6A to 10.5V)
Internal resistance	Full charged at 25°C: 7.5 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

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



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

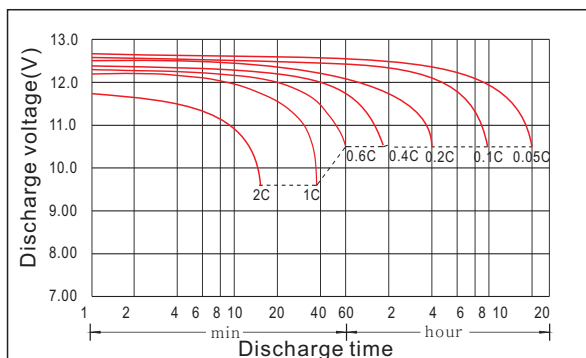
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	167	102	60.2	35.2	25.6	17.2	11.3	9.63	5.07
1.65V	162	100	59.8	35.0	25.3	17.0	11.2	9.54	5.05
1.70V	159	98.4	59.4	34.8	24.9	16.8	11.1	9.45	5.02
1.75V	154	97.5	58.5	34.2	24.7	16.6	11.0	9.36	5.00
1.80V	143	93.3	57.0	33.6	24.5	16.2	10.9	9.26	4.97
1.85V	128	85.1	52.8	31.9	23.1	15.4	10.5	8.99	4.89

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

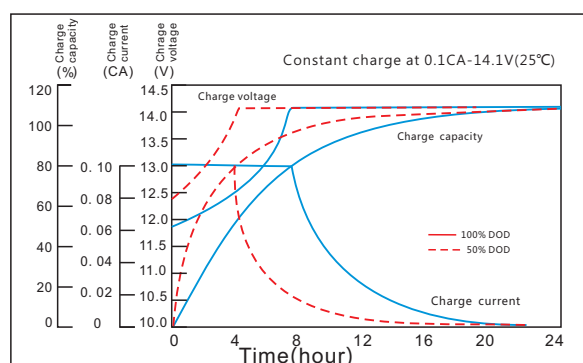
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	390	233	143	81.8	59.7	40.0	26.9	22.4	12.1
1.65V	383	231	141	81.6	58.9	39.7	26.7	22.2	12.0
1.70V	379	231	140	81.2	58.6	39.4	26.6	22.0	12.0
1.75V	376	230	139	80.8	58.3	39.2	26.3	21.7	11.9
1.80V	356	225	138	80.6	58.1	38.7	26.1	21.5	11.9
1.85V	318	206	128	76.9	55.2	37.0	25.2	21.2	11.8

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

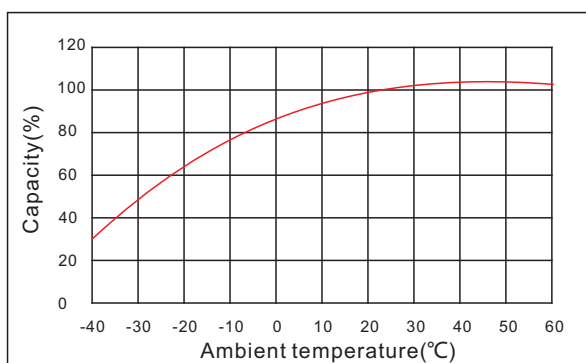
Discharge characteristic



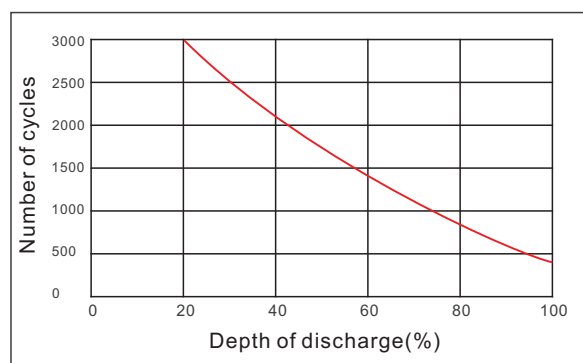
Charging characteristic



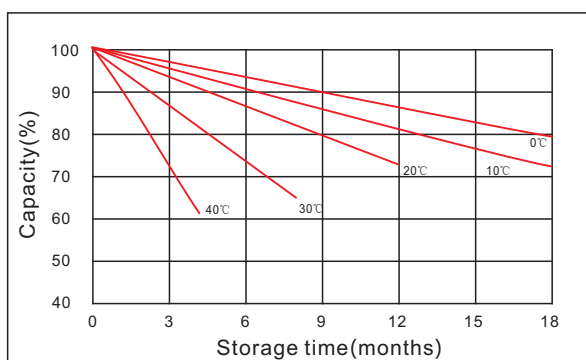
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

