



# JLG Series Pure GEL battery JLG12-85

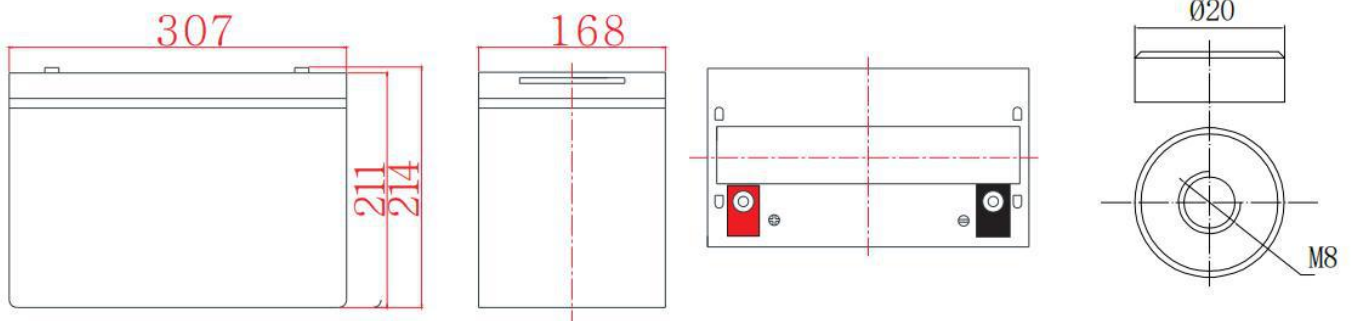
## General Features

- ▶ 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: 307(L) × 168(W) × 211(H) × 214(TH)**

**Unit: mm**



Terminal Dimensions

Specification	
Nominal Voltage	12V
Nominal Capacity	85Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx. 27.0kg (59.5lbs)
Container Material	ABS
short-circuit current	1363A
Internal resistance(Full charged at 25°C: )	8.8 mΩ
Self discharge	3% of capacity declined per month at 25°C
Operating Temperature	
Discharge:	-40 ~60°C(-40~ 140°F)
Charge :	-20 ~50°C(-4~ 122°F)
Storage:	-20 ~50°C(-4~ 122°F)
Charge Method(25 °C)	
Charge current:	Max. 21.25A; Recom. 8.5A
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)

## Applications

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

## Rated Capacity

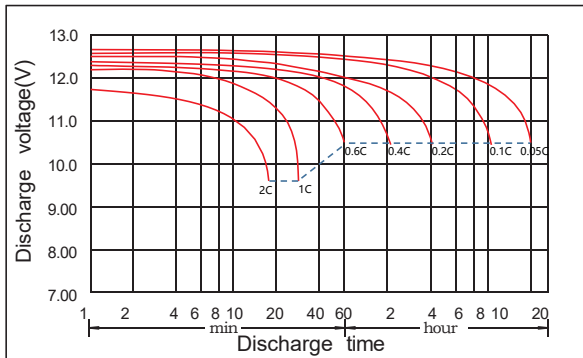
20Hour Rate (4.25A to 10.5V)	85.0Ah
3Hour Rate (22.8A to 10.2V)	68.4Ah
1Hour Rate (52.4A to 9.6V)	52.4Ah

## Attain Certificate

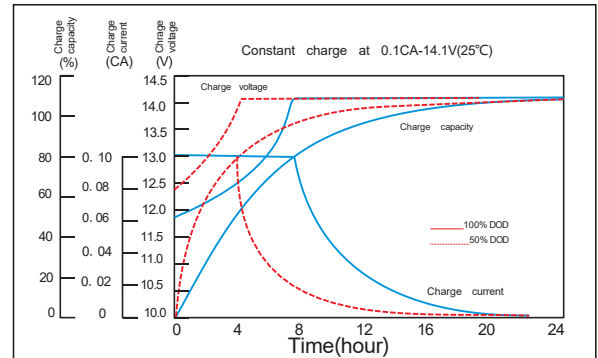


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

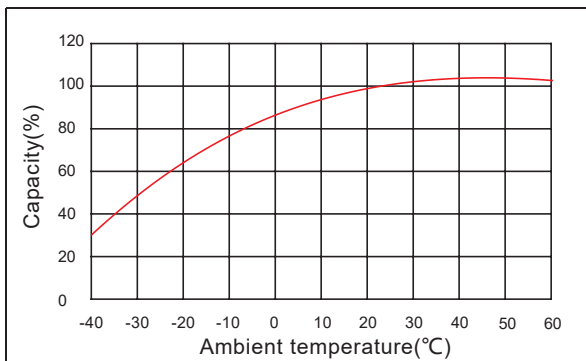
## Discharge characteristic



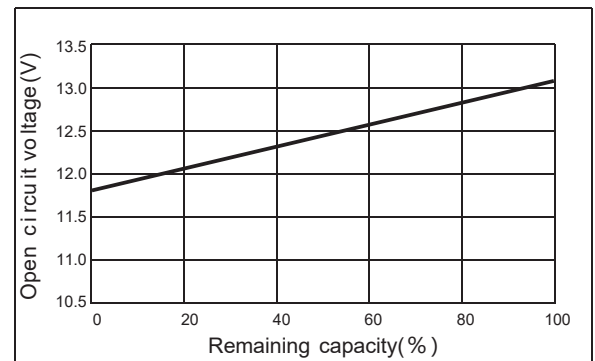
## Charging characteristic



## The effect of temperature on capacity



## Curves of open circuit voltage vs. capacity



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

FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	90.0	52.4	30.1	23.3	15.7	9.25	7.80	4.31
1.65V	88.3	52.1	30.0	23.2	15.6	9.17	7.72	4.29
1.70V	86.5	51.8	29.7	22.8	15.4	9.08	7.65	4.27
1.75V	85.9	51.0	29.3	22.5	15.2	9.01	7.57	4.25
1.80V	82.1	49.7	28.7	22.4	14.8	9.00	7.50	4.23
1.85V	74.9	46.0	27.3	21.1	14.1	8.58	7.27	4.15

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

FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	163	100	56.9	44.4	29.7	18.0	15.0	8.54
1.65V	162	98.7	56.7	43.9	29.5	17.9	14.8	8.50
1.70V	161	97.8	56.5	43.6	29.4	17.8	14.7	8.46
1.75V	160	96.9	56.2	43.3	29.2	17.7	14.6	8.42
1.80V	156	96.1	56.0	43.2	28.8	17.5	14.4	8.38
1.85V	143	89.1	53.5	41.1	27.5	16.9	14.2	8.30