



JLG Series Pure GEL battery JLG12-190

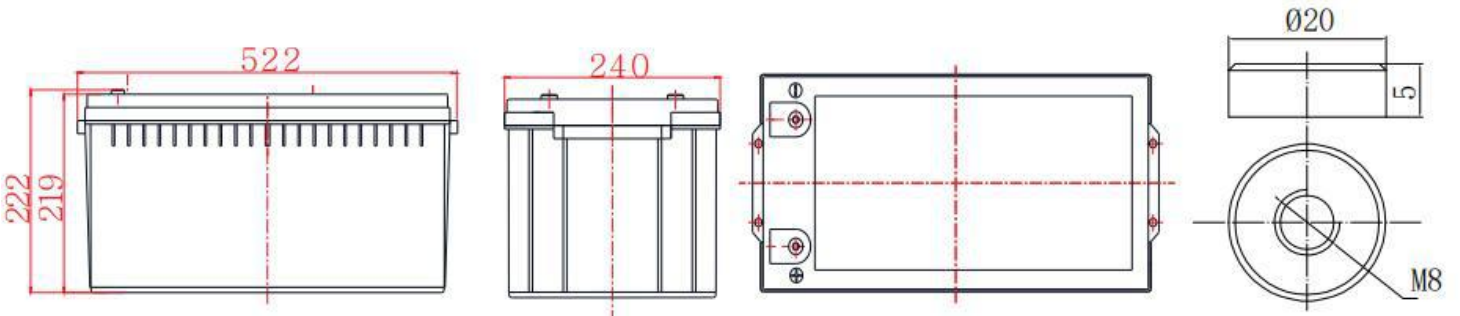
General Features

- ▶ 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: 522(L) × 240(W) × 219(H) × 222(TH)

Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V
Nominal Capacity	190Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 58kg (127.9lbs)
Container Material	ABS
short-circuit current	2105A
Internal resistance(Full charged at 25°C:)	5.7 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. 47.5A; Recom. 19.0A
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

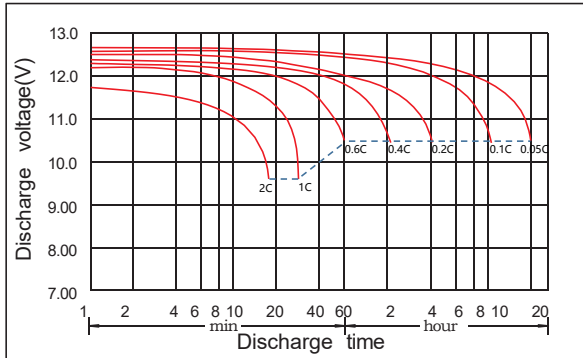
20Hour Rate (9.50A to 10.5V)	190.0Ah
3Hour Rate (50.0A to 10.2V)	150.0Ah
1Hour Rate (100A to 9.6V)	100.0Ah

Attain Certificate

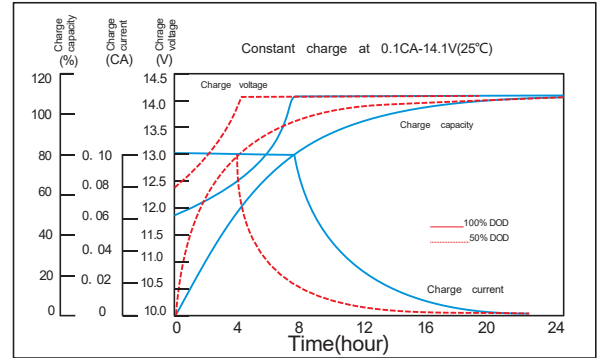


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

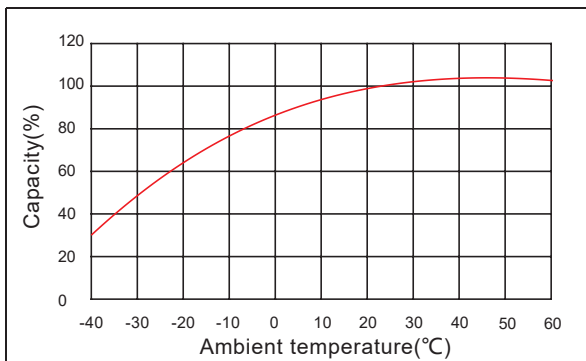
Discharge characteristic



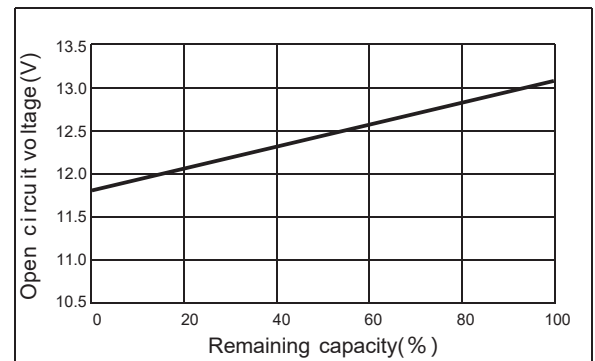
Charging characteristic



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	150	100	57.4	51.2	34.3	21.0	17.7	9.64
1.65V	147	99.3	57.1	50.8	34.1	20.8	17.5	9.60
1.70V	144	98.7	56.6	50.0	33.7	20.6	17.3	9.54
1.75V	143	97.2	55.8	49.4	33.3	20.5	17.2	9.50
1.80V	137	94.7	54.8	49.2	32.5	20.4	17.0	9.46
1.85V	125	87.8	52.0	46.3	30.9	19.5	16.5	9.28

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

FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	271	190	110	97.6	65.2	40.8	34.0	19.1
1.65V	269	188	109	96.3	64.8	40.4	33.6	19.0
1.70V	268	187	108	95.7	64.4	40.2	33.2	18.9
1.75V	267	185	107	95.1	64.0	40.0	33.1	18.8
1.80V	260	183	106	94.9	63.2	39.7	32.7	18.7
1.85V	238	170	102	90.2	60.4	38.3	32.1	18.5