



JLG Series Pure GEL battery JLG12-135

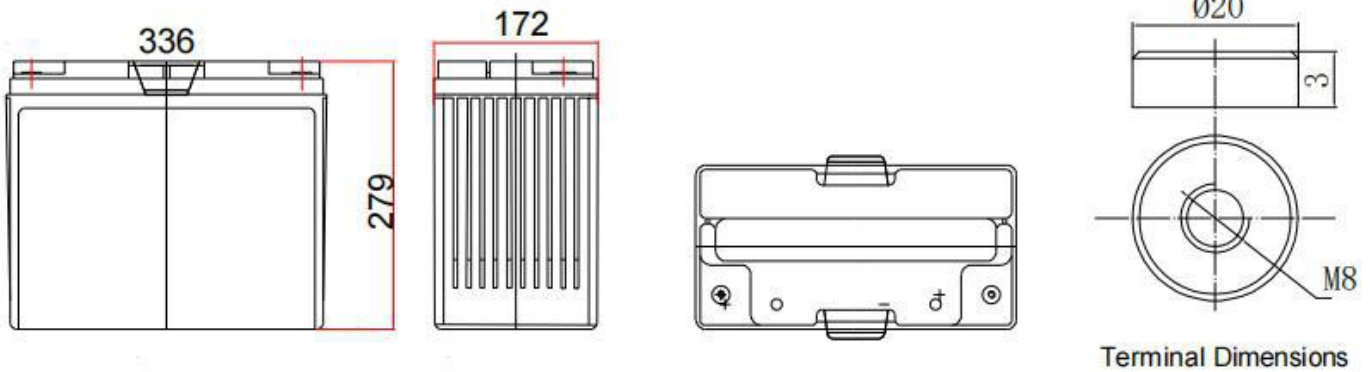
General Features

- ▶ 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: 336(L) × 172(W) × 279(H) × 279(TH)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	135Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx. 40.0kg (88.2lbs)
Container Material	ABS
short-circuit current	1643A
Internal resistance (Full charged at 25°C:)	7.3 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. 33.75A; Recom. 13.5A
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

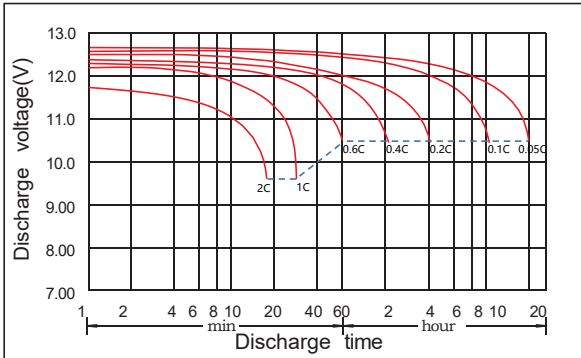
20Hour Rate (6.75A to 10.5V)	135.0Ah
3Hour Rate (36.5A to 10.2V)	109.5Ah
1Hour Rate (80.0A to 9.6V)	80.0Ah

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.

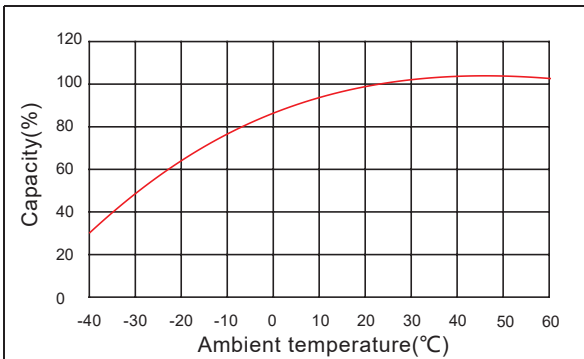
Discharge characteristic



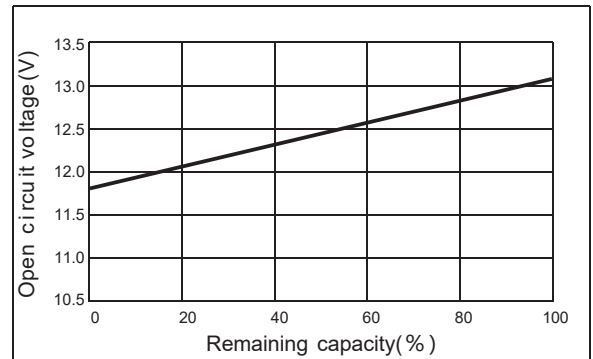
Charging characteristic



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	130	80.0	45.9	37.4	25.1	16.0	13.5	6.85
1.65V	128	79.5	45.7	37.1	24.9	15.9	13.4	6.82
1.70V	125	78.9	45.3	36.5	24.6	15.8	13.3	6.78
1.75V	124	77.8	44.6	36.1	24.3	15.7	13.1	6.75
1.80V	119	75.8	43.8	35.9	23.7	15.6	13.0	6.72
1.85V	108	70.2	41.6	33.8	22.6	14.9	12.6	6.60

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

FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	235	152	86.7	71.2	47.6	31.2	26.0	13.6
1.65V	234	151	86.5	70.3	47.3	30.9	25.7	13.5
1.70V	233	149	86.2	69.9	47.0	30.8	25.4	13.4
1.75V	231	148	85.7	69.4	46.7	30.6	25.3	13.3
1.80V	225	147	85.4	69.3	46.1	30.3	25.0	13.2
1.85V	206	136	81.6	65.9	44.1	29.3	24.6	13.1