

JLG12-135

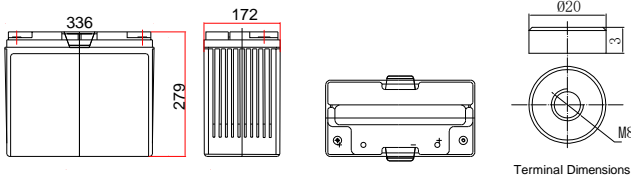


General Features

- › 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



Terminal Dimensions

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	135Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 40.0kg (88.2lbs)
Container Material	ABS
Rated Capacity	135.0Ah 20Hour Rate (6.75A to 10.5V)
	109.5Ah 3Hour Rate (36.5A to 10.2V)
	80.0Ah 1Hour Rate (80.0A to 9.6V)
Internal resistance	Full charged at 25°C: 7.3 mΩ
Max. Discharge Current	1620A(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 Method (25°C)	Charge current: Max. 33.75A ; Recom. 13.5A
	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)

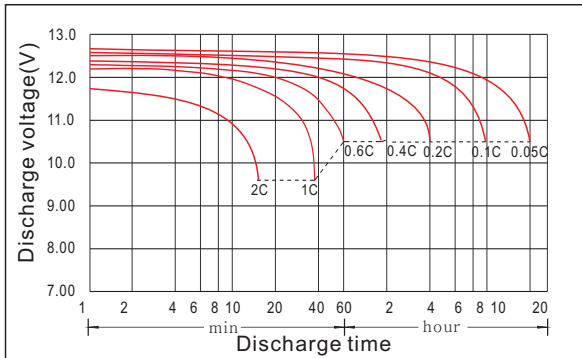
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	130	80.0	45.9	37.4	25.1	16.0	13.5	6.85
1.65V	128	79.5	45.7	37.1	24.9	15.9	13.4	6.82
1.70V	125	78.9	45.3	36.5	24.6	15.8	13.3	6.78
1.75V	124	77.8	44.6	36.1	24.3	15.7	13.1	6.75
1.80V	119	75.8	43.8	35.9	23.7	15.6	13.0	6.72
1.85V	108	70.2	41.6	33.8	22.6	14.9	12.6	6.60

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

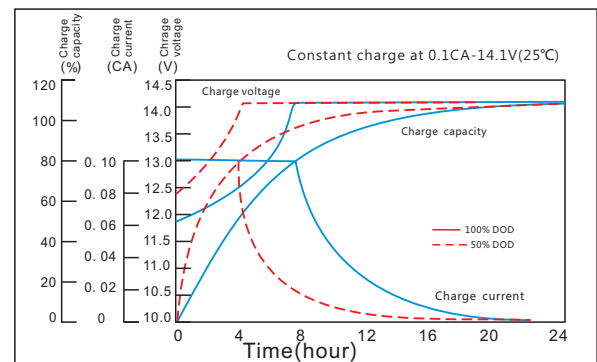
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	235	152	86.7	71.2	47.6	31.2	26.0	13.6
1.65V	234	151	86.5	70.3	47.3	30.9	25.7	13.5
1.70V	233	149	86.2	69.9	47.0	30.8	25.4	13.4
1.75V	231	148	85.7	69.4	46.7	30.6	25.3	13.3
1.80V	225	147	85.4	69.3	46.1	30.3	25.0	13.2
1.85V	206	136	81.6	65.9	44.1	29.3	24.6	13.1

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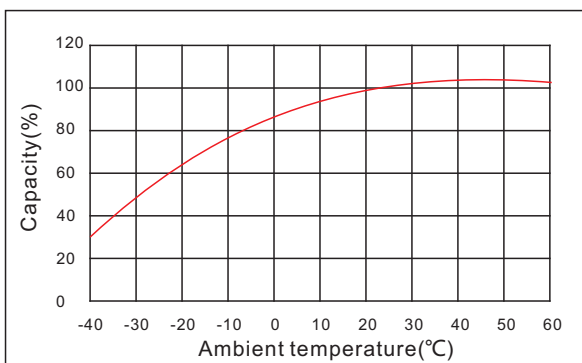
Discharge characteristic



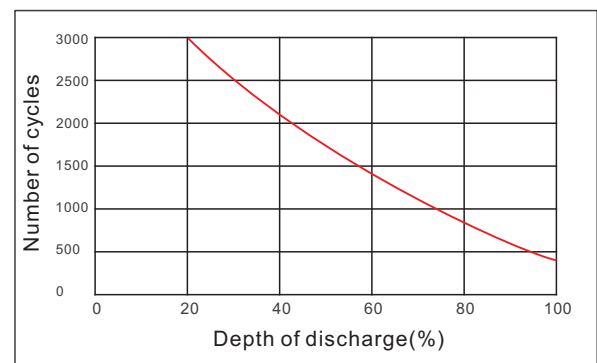
Charging characteristic



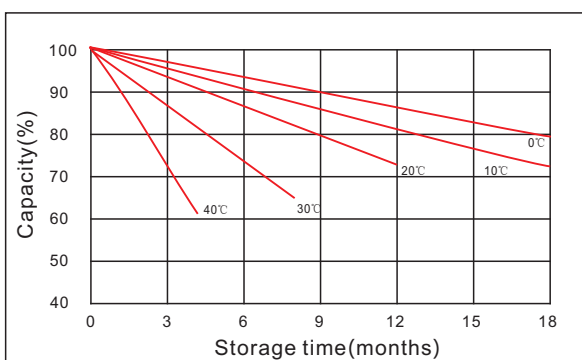
The effect of temperature on capacity



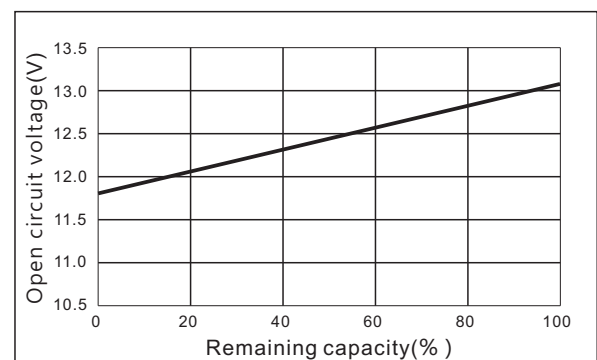
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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