

## JLG12-150

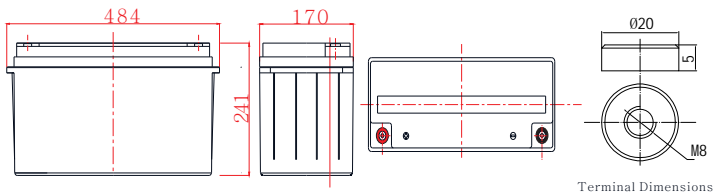


### General Features

- › 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: 484(L) × 170(W) × 241(H) × 241(TH) Unit: mm



### 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	150Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 42.5kg (93.7lbs)
Container Material	ABS
Rated Capacity	150.0Ah 20Hour Rate (7.5A to 10.5V)
	114Ah 3Hour Rate (38.0A to 10.2V)
	87.4Ah 1Hour Rate (87.4A to 9.6V)
Internal resistance	Full charged at 25°C: 7.7 mΩ
Max. Discharge Current	1800A(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. 37.5A ; Recom. 15.0A
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

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

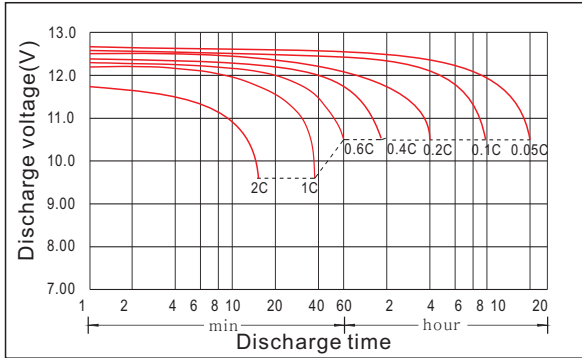
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	150	87.4	50.2	38.9	26.1	17.8	15.0	7.61
1.65V	147	86.9	49.9	38.6	25.9	17.6	14.9	7.58
1.70V	144	86.3	49.5	38.0	25.6	17.5	14.7	7.53
1.75V	143	85.0	48.8	37.5	25.3	17.4	14.6	7.50
1.80V	137	82.8	47.9	35.4	24.7	17.3	14.4	7.47
1.85V	125	76.7	45.4	35.2	23.5	16.5	14.0	7.30

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

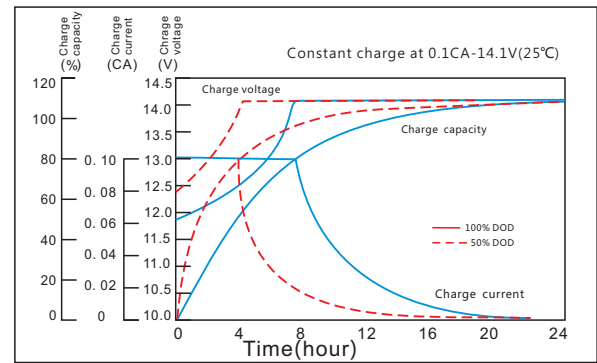
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	271	166	94.8	74.1	49.5	34.6	28.9	15.1
1.65V	269	165	94.5	73.2	49.2	34.3	28.5	15.0
1.70V	268	163	94.2	72.7	48.9	34.1	28.3	14.9
1.75V	267	162	93.6	72.7	48.6	34.0	28.2	14.8
1.80V	260	160	93.3	72.1	48.0	33.7	27.7	14.7
1.85V	238	149	89.1	68.5	45.8	32.5	27.2	14.6

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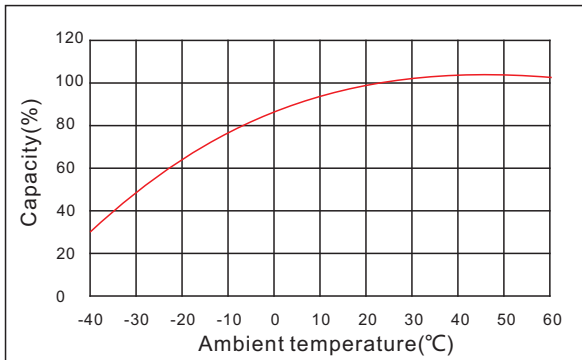
Discharge characteristic



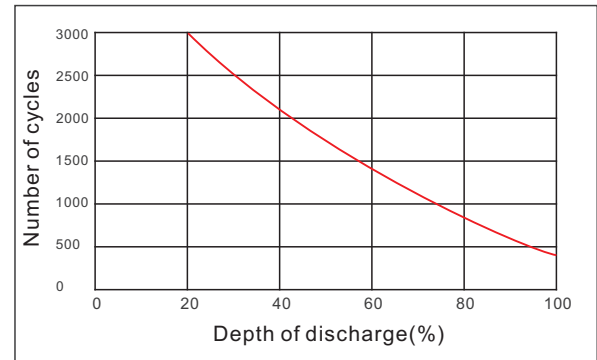
Charging characteristic



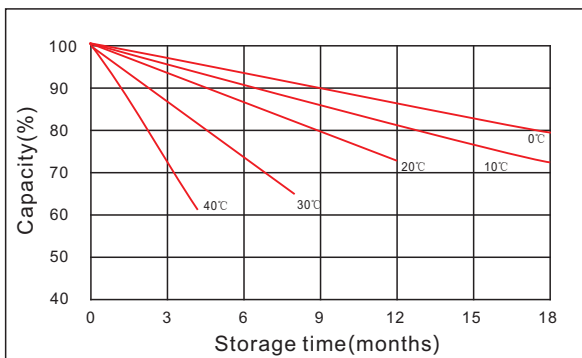
The effect of temperature on capacity



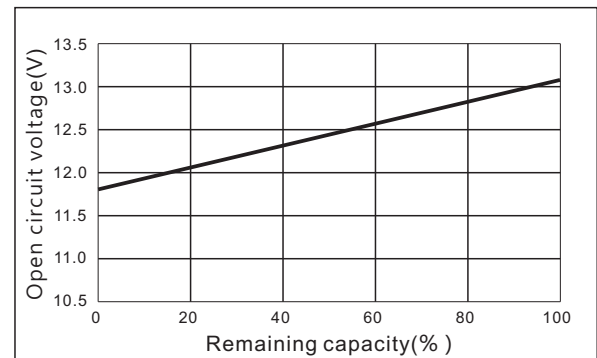
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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