

JLG12-150

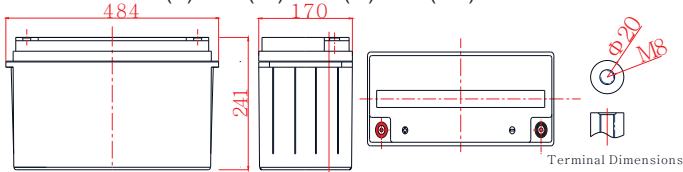


General Features

- 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	15 years
Terminal	M8
Approx. Weight	Approx 45.0kg (99.3lbs)
Container Material	ABS
Rated Capacity	150Ah 20Hour Rate (7.5A to 10.5V)
	144Ah 10Hour Rate (14.4A to 10.5V)
	129.5Ah 5Hour Rate (25.9A to 10.5V)
Internal resistance	Full charged at 25°C: 3.6 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. 13.8V (-18mV/ °C)
	Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/ °C)
	Cycle charge: 14.4-15.0V, recom. 14.7V (-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

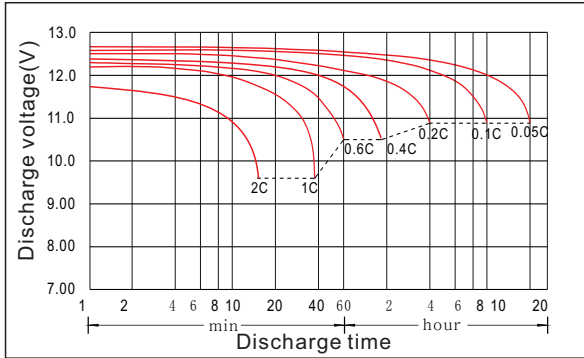
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	503	270	164	96.0	55.0	39.9	26.8	17.6	14.8	7.61
1.65V	486	261	162	95.0	54.7	39.5	26.5	17.5	14.7	7.57
1.70V	467	256	159	95.0	54.3	39.0	26.2	17.3	14.5	7.53
1.75V	429	248	157	93.3	53.5	38.6	25.9	17.2	14.4	7.50
1.80V	386	231	150	90.9	52.5	38.3	25.3	17.0	14.3	7.46
1.85V	344	206	137	84.2	49.9	36.0	24.0	16.3	13.9	7.33

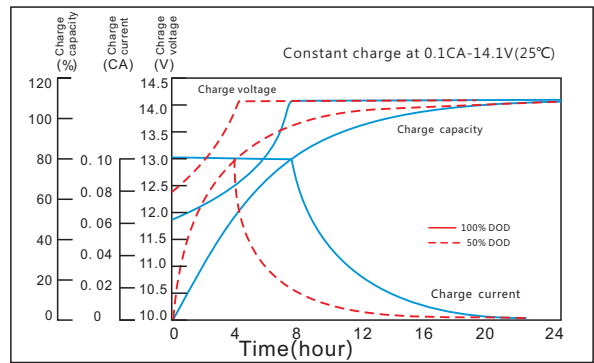
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

F.V/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	842	475	297	181	105	76.0	50.8	34.2	28.5	15.4
1.65V	809	466	295	180	104	75.0	50.5	33.9	28.2	15.3
1.70V	806	462	295	179	104	74.6	50.2	33.8	27.9	15.3
1.75V	751	459	293	178	103	74.2	49.9	33.5	27.6	15.2
1.80V	690	433	286	176	103	73.9	49.3	33.3	27.4	15.1
1.85V	616	388	262	163	97.9	70.2	47.0	32.1	27.0	15.0

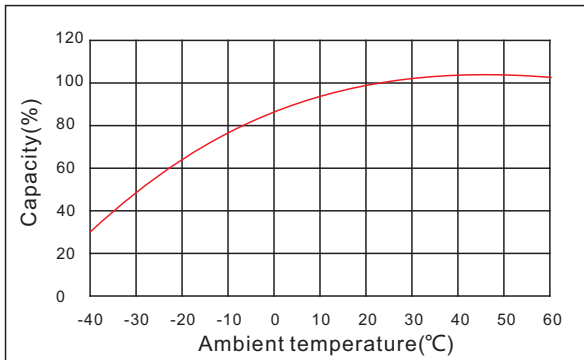
Discharge characteristic



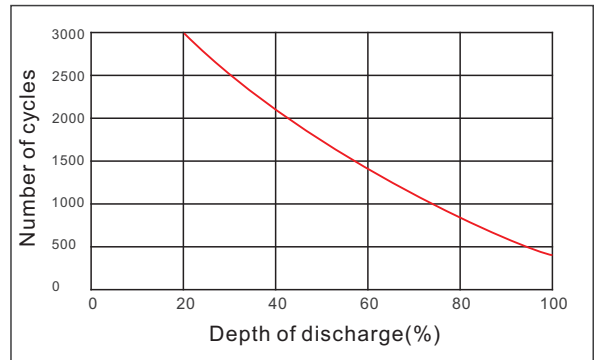
Charging characteristic



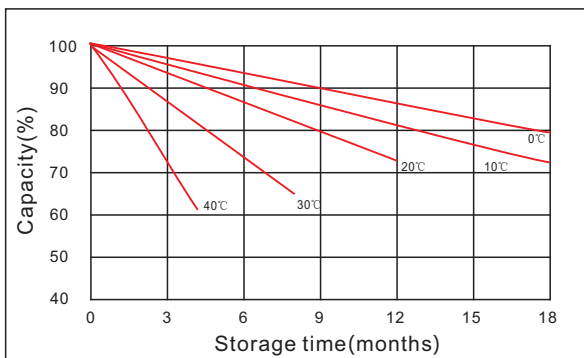
The effect of temperature on capacity



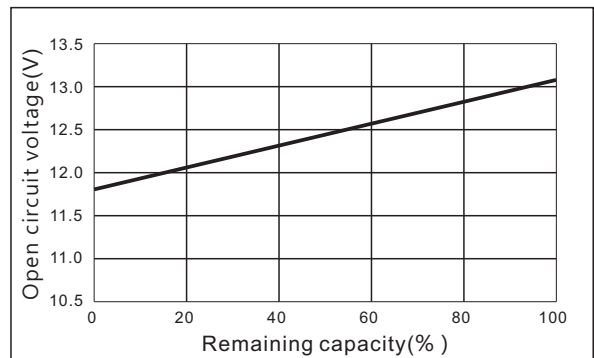
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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