

JLG12-150

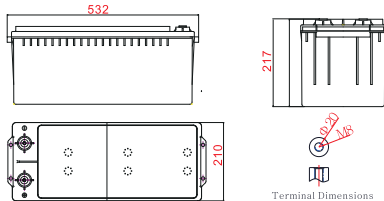


General Features

- > 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: 532(L)×210(W)×216(H)×217(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	150Ah
Design life	12 years
Terminal	M8
Approx. Weight	Approx 56.5kg (125lbs)
Container Material	ABS
Rated Capacity	150Ah → 10Hour Rate (15.0A to 10.8V)
	118.8Ah → 3Hour Rate (39.6A to 10.8V)
	94.6Ah → 1Hour Rate (94.6A to 10.5V)
Internal resistance	Full charged at 25°C: 6.0 mΩ
Max. Discharge Current	1800A(5S)
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°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	2% of capacity declined per month at 25°C

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

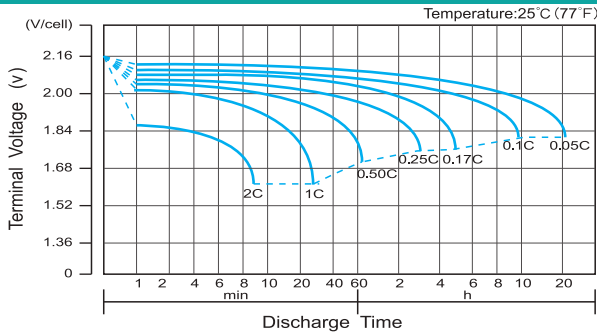
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	271	165	97.3	56.9	41.3	27.8	18.2	15.6	8.20
1.65V	262	162	96.7	56.7	40.9	27.5	18.1	15.4	8.16
1.70V	257	159	96.0	56.2	40.3	27.2	17.9	15.3	8.11
1.75V	248	158	94.6	55.4	39.9	26.9	17.8	15.1	8.08
1.80V	232	151	92.2	54.3	39.6	26.2	17.6	15.0	8.04
1.85V	207	138	85.4	51.6	37.3	24.9	16.9	14.5	7.90

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

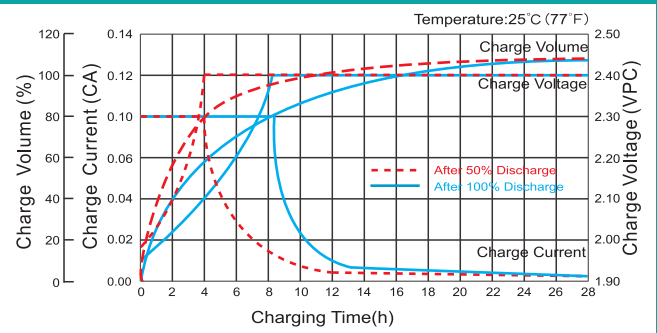
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	477	298	188	108	78.6	52.6	35.4	29.9	16.2
1.65V	468	295	186	107	77.6	52.3	35.1	29.7	16.1
1.70V	463	295	185	107	77.2	51.9	35.0	29.4	16.1
1.75V	460	294	183	106	76.8	51.6	34.7	29.1	16.0
1.80V	435	287	182	106	76.5	51.0	34.4	28.8	15.9
1.85V	389	263	169	101	72.7	48.7	33.2	28.3	15.8

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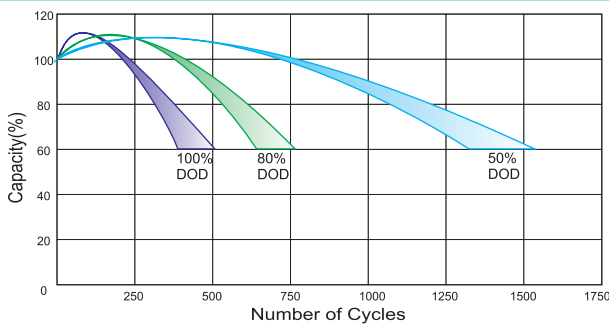
Discharge Characteristics Curve



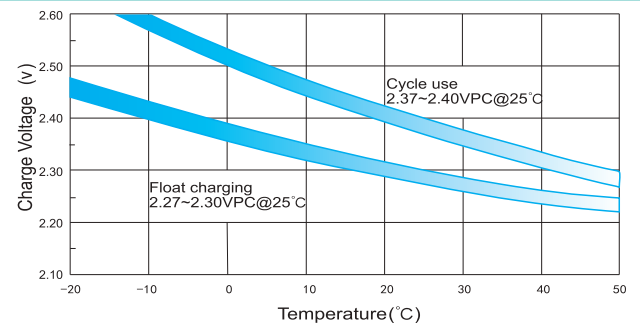
Charge Characteristic Curve for Cycle Use(IU)



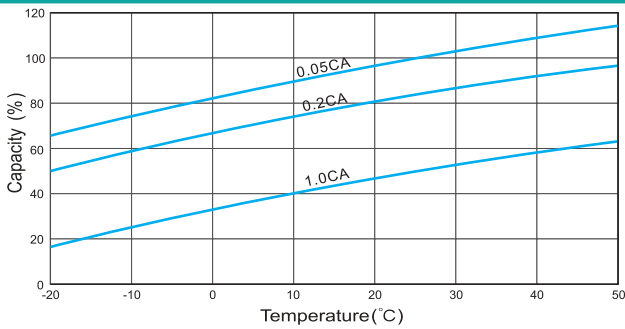
Cycle Life in Relation to Depth of Discharge



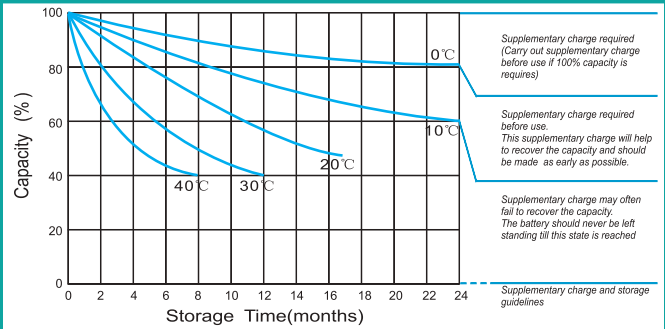
Relationship Between Charging Voltage and Temperature



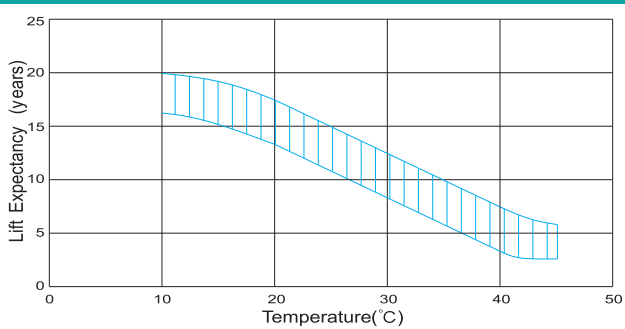
Temperature Effects on Capacity



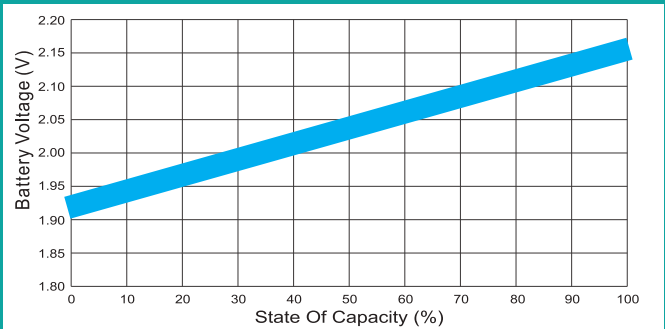
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)



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