

JLG12-100

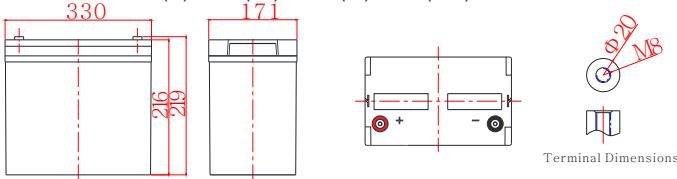


General Features

- > 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: 330(L) × 171(W) × 216(H) × 219(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	100Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 30.0kg (66.1lbs)
Container Material	ABS
Rated Capacity	100Ah → 10Hour Rate (10.0A to 10.8V)
	78.9Ah → 3Hour Rate (26.3A to 10.8V)
	62.8Ah → 1Hour Rate (62.8A to 10.5V)
Internal resistance	Full charged at 25°C: 7.5 mΩ
Max. Discharge Current	950A(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. 25A ; Recom. 10.0A
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)

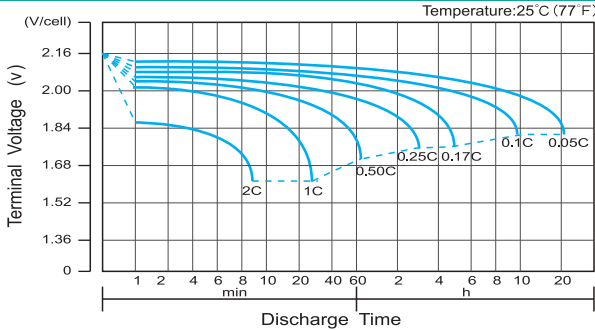
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	180	109	64.6	37.8	27.5	18.4	12.1	10.3	5.45
1.65V	174	108	64.3	37.6	27.2	18.2	12.0	10.2	5.42
1.70V	171	106	63.8	37.4	26.8	18.1	11.9	10.1	5.39
1.75V	165	105	62.8	36.8	26.5	17.9	11.8	10.0	5.37
1.80V	154	100	61.2	36.1	26.3	17.4	11.7	10.0	5.34
1.85V	137	91.4	56.7	34.3	24.8	16.5	11.2	9.65	5.25

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

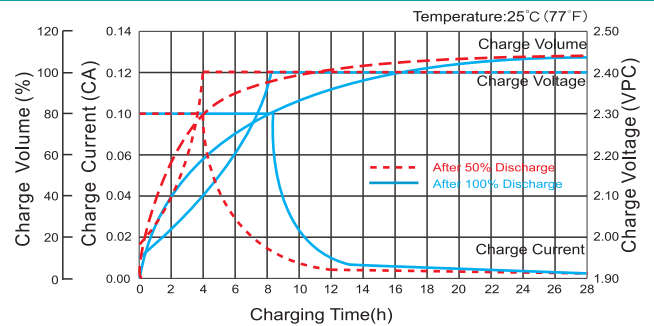
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	390	233	143	81.8	59.7	40.0	26.9	22.4	12.1
1.65V	383	231	141	81.6	58.9	39.7	26.7	22.2	12.0
1.70V	379	231	140	81.2	58.6	39.4	26.6	22.0	12.0
1.75V	376	230	139	80.8	58.3	39.2	26.3	21.7	11.9
1.80V	356	225	138	80.6	58.1	38.7	26.1	21.5	11.9
1.85V	318	206	128	76.9	55.2	37.0	25.2	21.2	11.8

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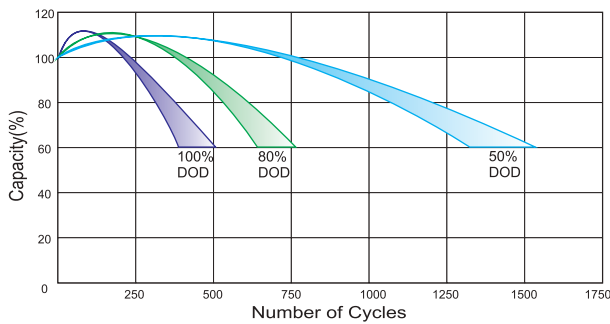
Discharge Characteristics Curve



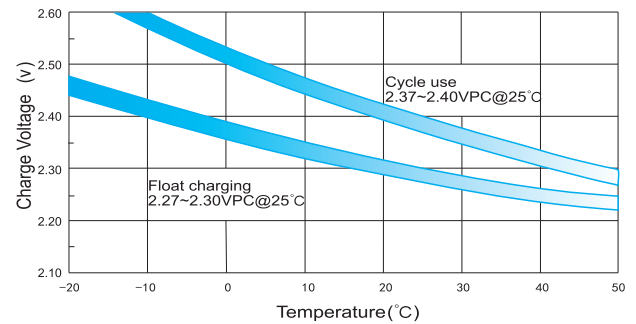
Charge Characteristic Curve for Cycle Use(IU)



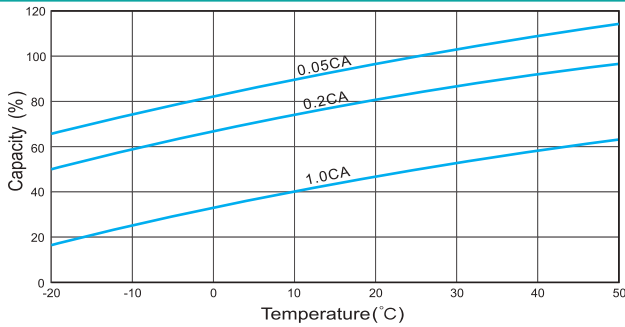
Cycle Life in Relation to Depth of Discharge



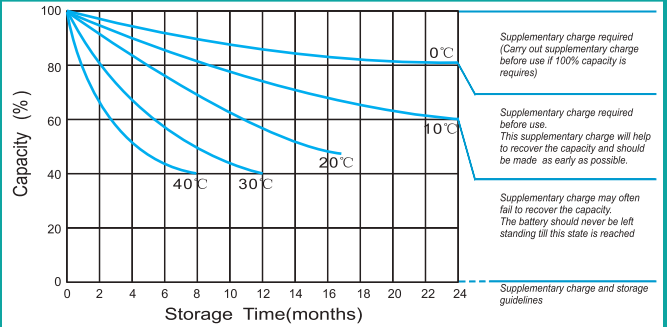
Relationship Between Charging Voltage and Temperature



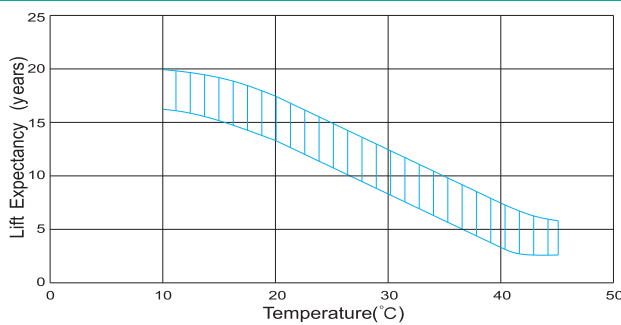
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

