

## JLG12-200

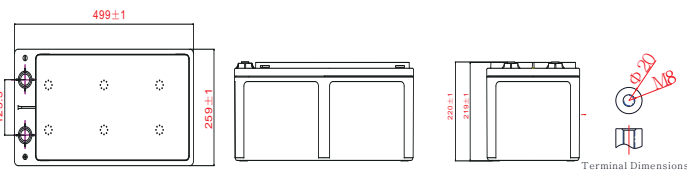


### General Features

- › 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: 499(L) × 259(W) × 219(H) × 220(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	200Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 74.0kg (163lbs)
Container Material	ABS
Rated Capacity	<b>200Ah</b> 10Hour Rate (20.0A to 10.8V)
	<b>158Ah</b> 3Hour Rate (52.6A to 10.8V)
	<b>126Ah</b> 1Hour Rate (126A to 10.5V)
Internal resistance	Full charged at 25°C: 5.0mΩ
Max. Discharge Current	1200A(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. 50.0A ; Recom. 20.0A
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: 14.1-14.4V, recom. 14.4V (-30mV/ °C)
Self discharge	2% of capacity declined per month at 20°C

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

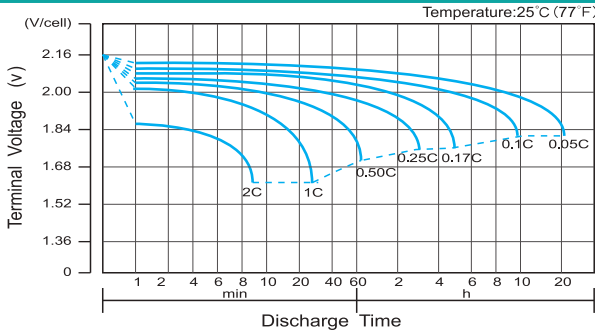
FV/Time	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	363	221	130	76.3	55.3	37.2	24.4	20.9	11.0
1.65V	352	217	130	75.9	54.8	36.8	24.2	20.7	10.9
1.70V	344	213	129	75.3	54.0	36.4	24.0	20.5	10.9
1.75V	333	211	127	74.2	53.4	36.0	23.8	20.3	10.8
1.80V	310	202	123	72.8	53.0	35.1	23.6	20.1	10.8
1.85V	276	184	114	69.1	50.0	33.3	22.7	19.5	10.6

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

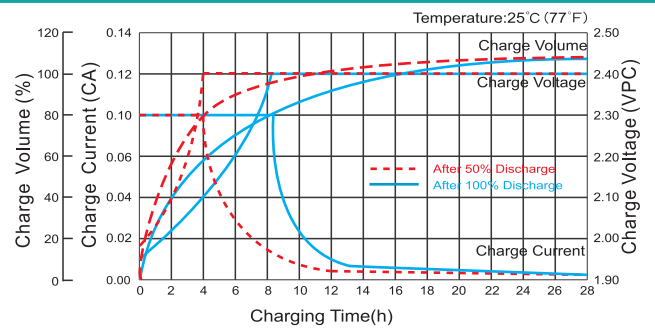
FV/Time	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	639	399	252	144	105	70.5	47.5	40.1	21.8
1.65V	627	395	250	144	104	70.1	47.1	39.7	21.7
1.70V	620	395	248	143	104	69.6	46.9	39.3	21.6
1.75V	616	393	246	142	103	69.1	46.5	38.9	21.5
1.80V	583	384	244	142	103	68.3	46.1	38.5	21.4
1.85V	521	352	227	136	97.4	65.2	44.6	37.9	21.2

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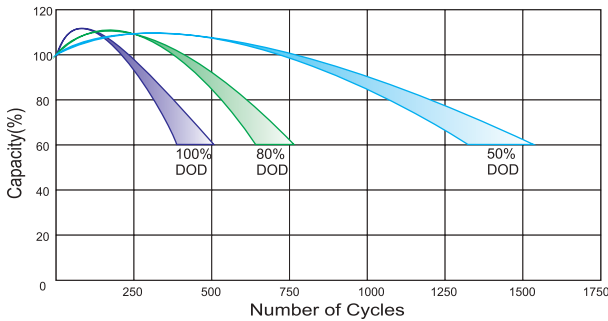
**Discharge Characteristics Curve**



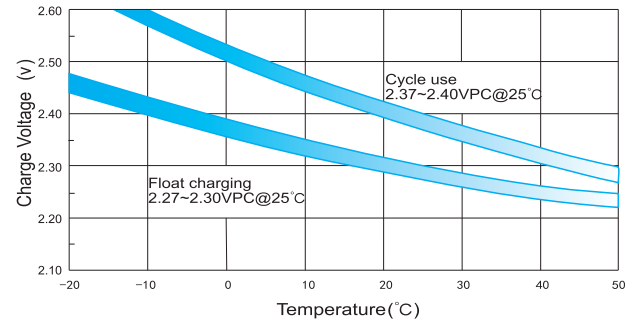
**Charge Characteristic Curve for Cycle Use(IU)**



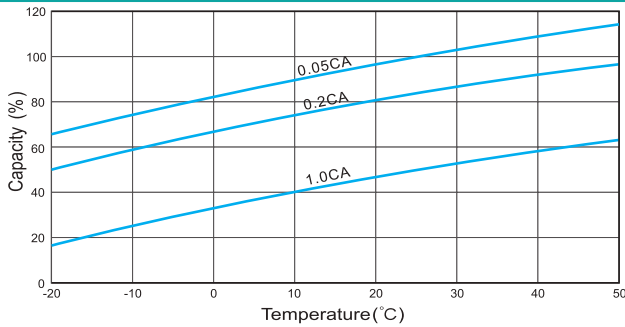
**Cycle Life in Relation to Depth of Discharge**



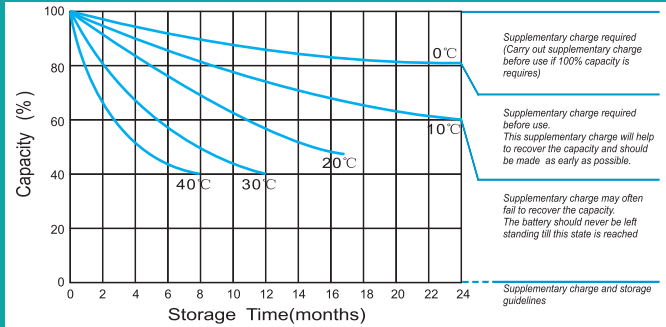
**Relationship Between Charging Voltage and Temperature**



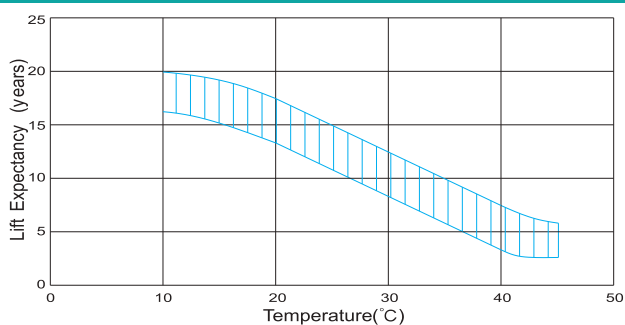
**Temperature Effects on Capacity**



**Storage Characteristics**



**Effect of Temperature on Long Term Life**



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

