

JLG12-200

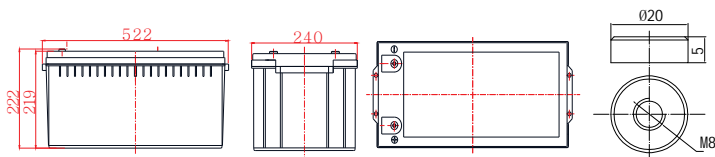


General Features

- > 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: 522(L)×240(W)×219(H)×222(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	200Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 61.8kg (136.2lbs)
Container Material	ABS
Rated Capacity	200.0Ah 20Hour Rate (10.0A to 10.5V)
	164.1Ah 3Hour Rate (54.7A to 10.2V)
	135Ah 1Hour Rate (135A to 9.6V)
Internal resistance	Full charged at 25°C: 4.0 mΩ
Max. Discharge Current	2400A(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:14.4-15.0V,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)

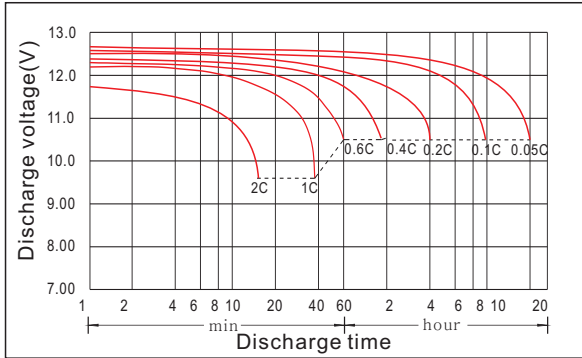
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	705	470	379	220	166	135	88.7	77.2	56.1	41.6	37.6	30.0	24.7	19.3	10.1
1.65V	683	466	367	216	164	134	87.9	76.8	55.5	41.2	37.2	29.7	24.5	19.1	10.1
1.70V	656	463	359	212	163	133	87.0	76.2	54.7	40.8	36.8	29.4	24.3	18.9	10.0
1.75V	617	456	348	211	161	131	86.2	75.1	54.1	40.4	36.5	29.1	24.1	18.7	10.0
1.80V	541	445	324	209	157	128	85.3	73.7	53.7	40.0	35.5	28.8	23.9	18.5	9.91
1.85V	495	411	289	200	145	118	82.8	70.0	50.6	38.8	33.7	28.0	22.9	18.0	9.72

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

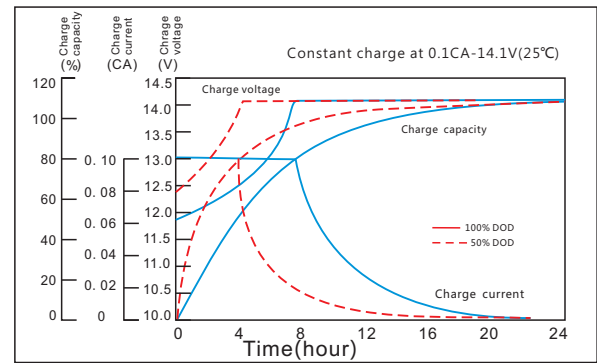
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	1181	796	667	402	306	255	169	147	107	79.0	71.3	58.6	48.0	37.0	20.0
1.65V	1136	789	655	401	304	253	167	146	106	78.2	71.0	58.0	47.6	36.7	19.9
1.70V	1125	783	647	400	301	251	165	145	105	77.4	70.4	57.5	47.4	36.3	19.8
1.75V	1054	777	643	398	299	249	164	144	104	76.6	70.0	56.9	47.0	35.9	19.7
1.80V	928	771	608	396	296	247	162	143	103	75.8	69.2	56.3	46.6	35.6	19.6
1.85V	855	714	544	378	275	229	160	137	99	74.7	66.1	55.4	45.1	35.0	19.4

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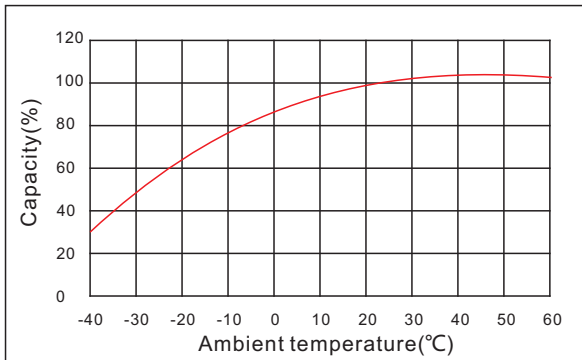
Discharge characteristic



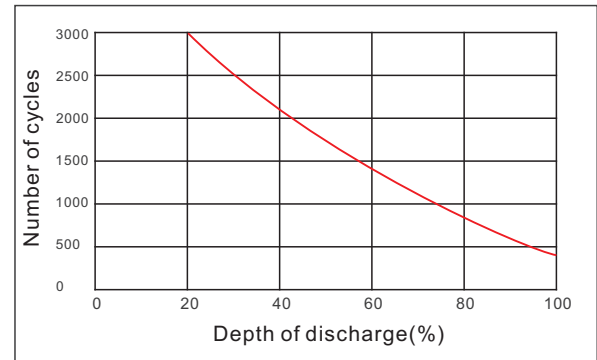
Charging characteristic



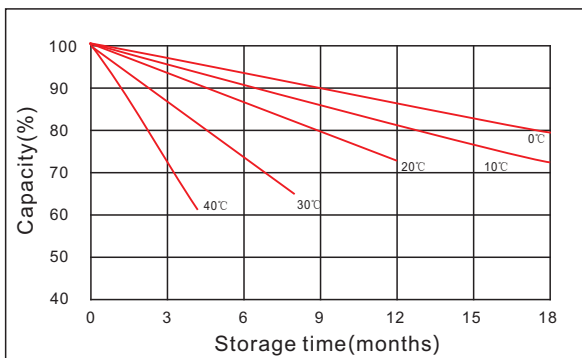
The effect of temperature on capacity



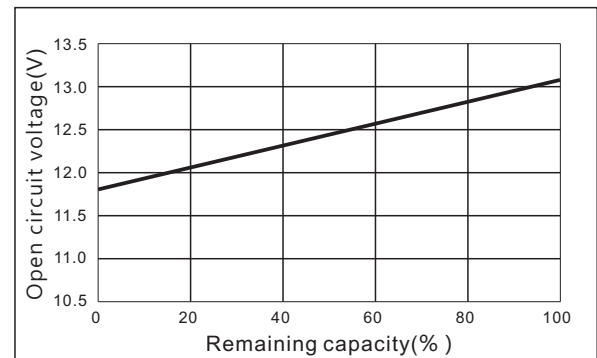
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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