

## JLG12-190

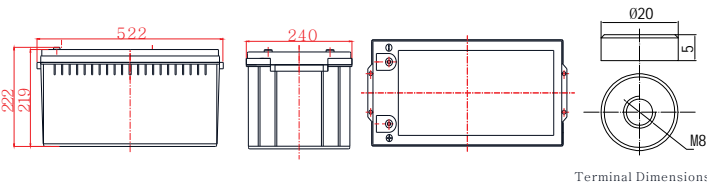


### General Features

- › 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



### 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	190Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 58.0kg (127.89lbs)
Container Material	ABS
Rated Capacity	190Ah → 20Hour Rate (9.5A to 10.5V)
	150Ah → 3Hour Rate (50.0A to 10.2V)
	100Ah → 1Hour Rate (100A to 9.6V)
Internal resistance	Full charged at 25°C: 5.6 mΩ
Max. Discharge Current	2280A(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. 47.5A ; Recom. 19.0A
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)

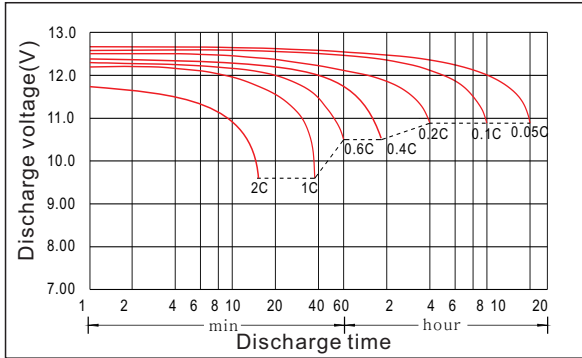
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	524	348	281	150	123	100	72.0	57.4	51.2	34.5	34.3	25.5	21.0	17.7	9.64
1.65V	506	346	273	147	122	99.3	71.2	57.1	50.8	34.1	34.1	25.2	20.8	17.5	9.60
1.70V	487	343	267	144	121	98.7	70.4	56.6	50.0	33.7	33.7	24.9	20.6	17.3	9.54
1.75V	448	338	257	143	119	97.2	69.9	55.8	49.4	33.5	33.3	24.8	20.4	17.2	9.50
1.80V	401	330	241	137	116	94.7	69.1	54.8	49.2	33.2	32.5	24.5	20.4	17.0	9.46
1.85V	358	306	214	125	108	87.8	67.1	52.0	46.3	32.2	30.9	23.8	19.5	16.5	9.28

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

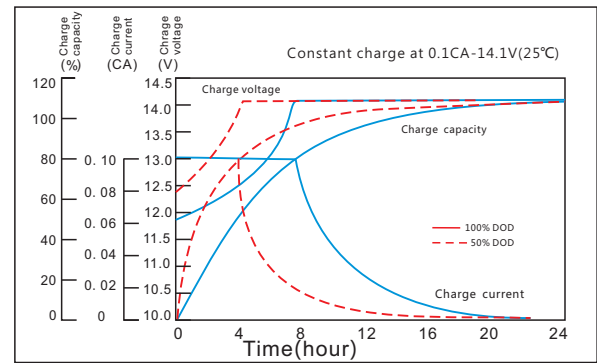
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	884	593	498	271	228	190	143	108	97.6	68.0	65.2	49.9	40.8	34.0	19.1
1.65V	847	587	489	268	226	188	142	108	96.3	67.2	64.8	49.3	40.4	33.6	19.0
1.70V	845	583	485	268	224	187	140	108	95.7	66.4	64.4	48.7	40.2	33.2	18.9
1.75V	786	577	480	267	222	185	140	107	95.1	66.2	64.0	48.5	40.0	33.1	18.8
1.80V	720	571	452	260	220	183	138	107	94.9	65.4	63.2	48.0	39.7	32.7	18.7
1.85V	639	530	402	238	204	170	135	102	90.2	64.2	60.4	47.1	38.3	32.1	18.5

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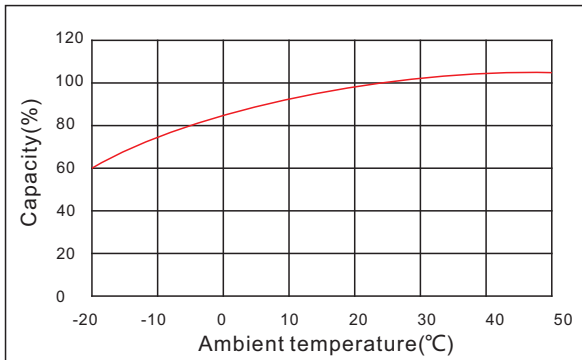
Discharge characteristic



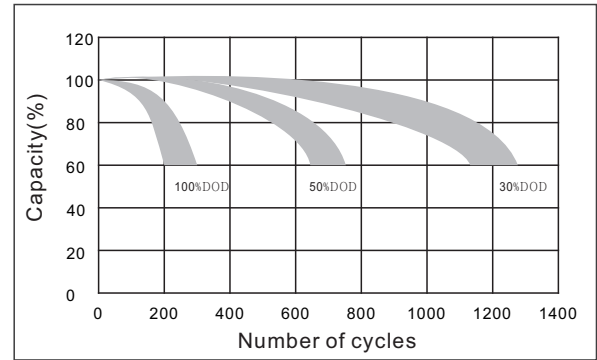
Charging characteristic



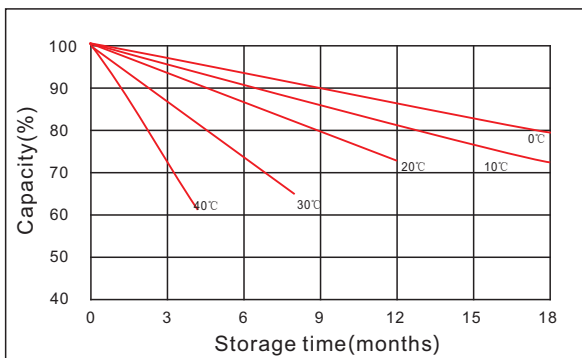
The effect of temperature on capacity



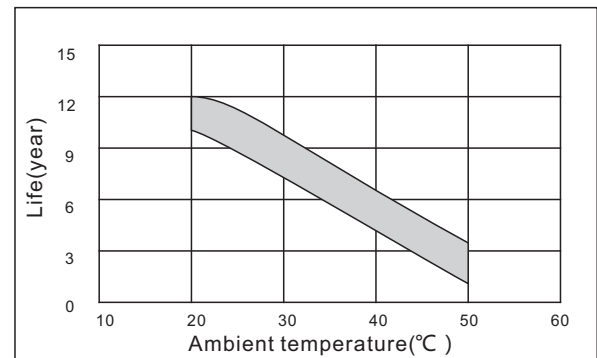
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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