

JLG6-190



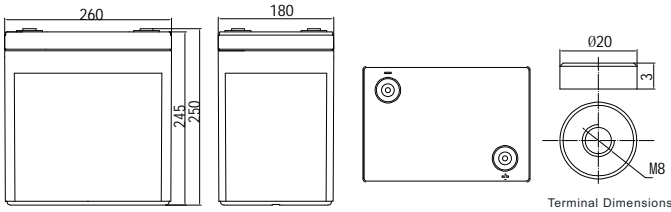
JLG Series Pure GEL battery

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: 260(L) × 180(W) × 245(H) × 250(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	6V
Nominal Capacity	190Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 26.6kg (58.6lbs)
Container Material	ABS
Rated Capacity	190.0Ah 20Hour Rate (9.50A to 5.25V)
	150.0Ah 3Hour Rate (50.0A to 5.10V)
	100.0Ah 1Hour Rate (100A to 4.80V)
Internal resistance	Full charged at 25°C: 2.8 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: 6.75-6.90V, recom.6.75V(-9mV/ °C)
	Equalize charge: 6.90-7.05V, recom.7.05V(-12mV/ °C)
	Cycle charge: 7.20-7.50V, recom.7.20V(-15mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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

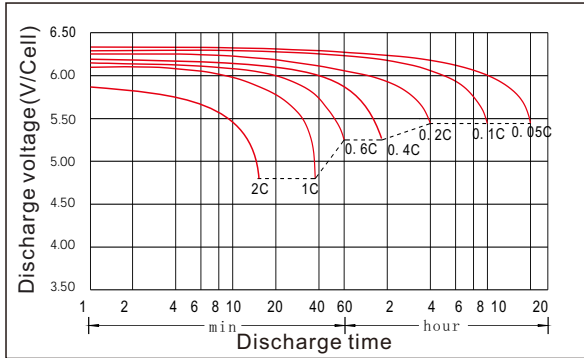
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	160	100	57.4	51.2	34.4	21.0	17.7	9.64
1.65V	157	99.3	57.1	50.8	34.2	20.8	17.5	9.60
1.70V	154	98.7	56.6	50.0	33.7	20.6	17.3	9.54
1.75V	153	97.2	55.8	49.4	33.3	20.5	17.2	9.50
1.80V	146	94.7	54.8	49.2	32.5	20.4	17.0	9.46
1.85V	133	87.8	52.0	46.3	30.9	19.5	16.5	9.28

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

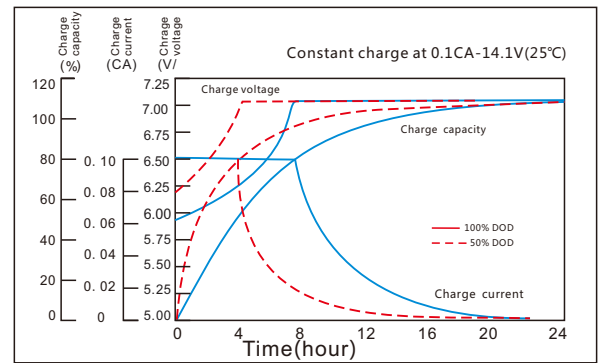
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	289	190	109	97.6	65.2	40.8	34.0	19.1
1.65V	287	188	108	96.3	64.8	40.4	33.6	19.0
1.70V	286	187	107	95.7	64.4	40.2	33.2	18.9
1.75V	285	185	106	95.1	64.0	40.0	33.1	18.8
1.80V	277	183	105	94.9	63.2	39.7	32.7	18.7
1.85V	254	170	102	90.2	60.4	38.3	32.1	18.6

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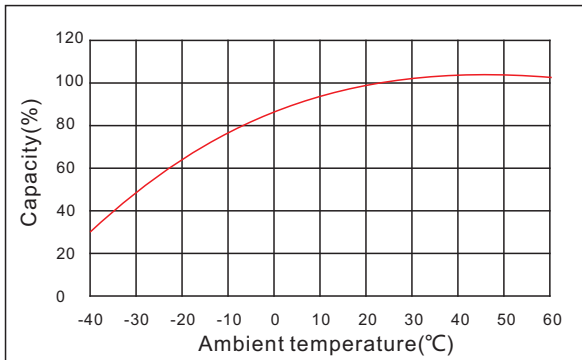
Discharge characteristic



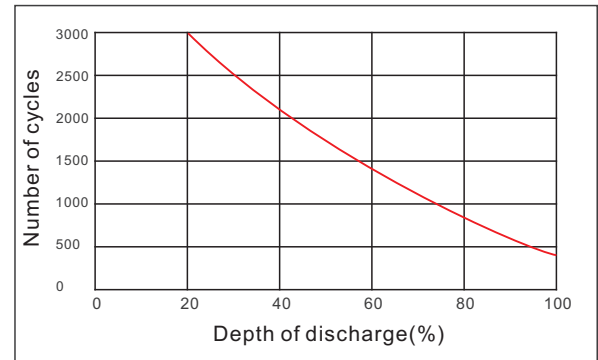
Charging characteristic



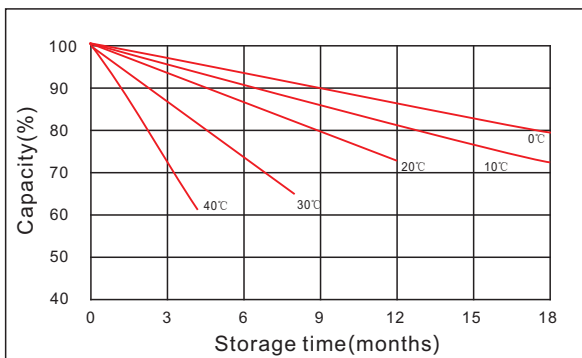
The effect of temperature on capacity



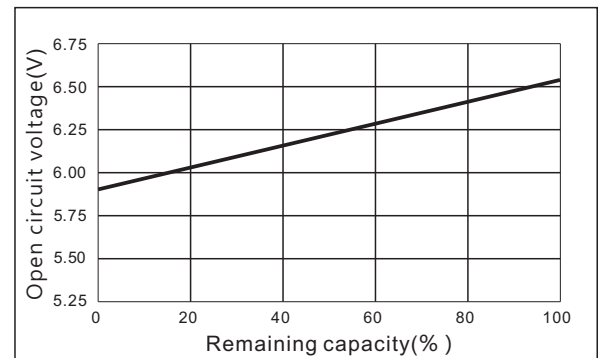
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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