

# JLG12-75



## JLG Series Pure GEL battery

### Applications

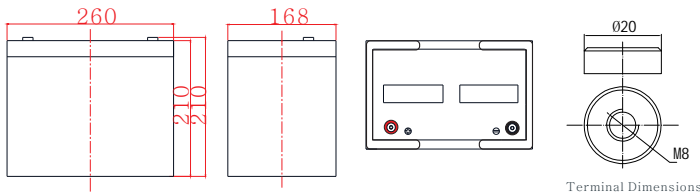
- > Solar / wind energy and other new energy storage
- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting、Auto control system
- > Other general purpose

### 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) × 168(W) × 210(H) × 210(TH) Unit: mm



### Specification

Nominal Voltage	12V
Nominal Capacity	75Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 21.5kg (47.40lbs)
Container Material	ABS
Rated Capacity	<b>75.0Ah</b> 20Hour Rate (3.75A to 10.5V)
	<b>57.0Ah</b> 3Hour Rate (19.0A to 10.2V)
	<b>42.0Ah</b> 1Hour Rate (42.0A to 9.6V)
Internal resistance	Full charged at 25°C: 8.5 mΩ
Max. Discharge Current	900A(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. 18.75A ; Recom.7.5A
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)

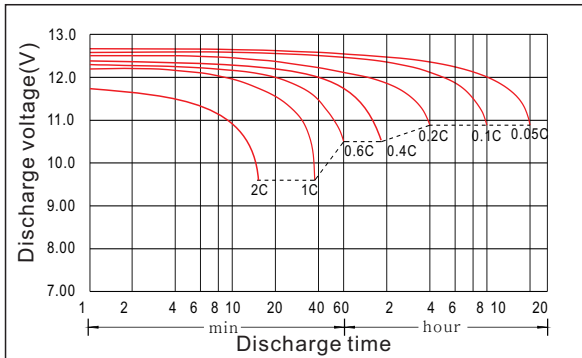
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	220	146	118	75.0	51.5	42.0	28.8	24.2	19.4	13.8	13.0	10.2	8.39	7.07	3.80
1.65V	213	145	115	73.6	51.2	41.7	28.5	24.0	19.3	13.7	13.0	10.1	8.31	7.00	3.79
1.70V	205	144	112	72.1	50.8	41.5	28.2	23.8	19.0	13.5	12.8	10.0	8.24	6.94	3.77
1.75V	188	142	108	71.5	50.1	40.8	27.9	23.4	18.8	13.4	12.7	9.90	8.16	6.87	3.75
1.80V	168	138	101	68.4	48.8	39.8	27.7	23.0	18.7	13.3	12.4	9.80	8.15	6.80	3.73
1.85V	150	128	90	62.5	45.2	36.9	26.8	21.8	17.6	12.9	11.7	9.52	7.78	6.60	3.66

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

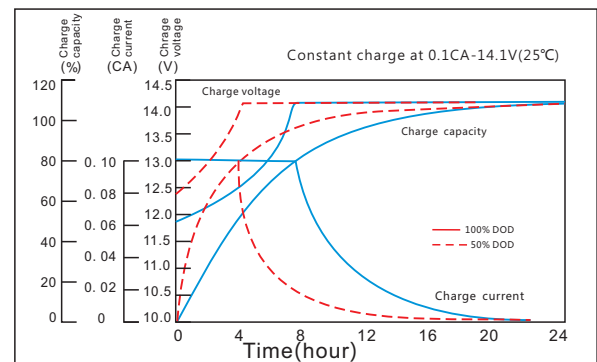
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	371	249	209	136	95.6	79.7	57.4	45.5	37.0	27.2	24.8	19.9	16.3	13.6	7.53
1.65V	356	247	206	134	94.8	79.0	56.8	45.4	36.6	26.9	24.6	19.7	16.2	13.5	7.50
1.70V	354	244	203	134	94.0	78.3	56.1	45.3	36.3	26.6	24.5	19.5	16.1	13.3	7.46
1.75V	330	242	202	133	93.1	77.6	55.8	45.0	36.1	26.4	24.3	19.4	16.0	13.2	7.43
1.80V	303	240	190	130	92.3	76.9	55.2	44.8	36.0	26.1	24.0	19.2	15.9	13.1	7.39
1.85V	268	223	160	119	85.7	71.4	54.2	42.8	34.3	25.7	22.9	18.8	15.3	12.8	7.32

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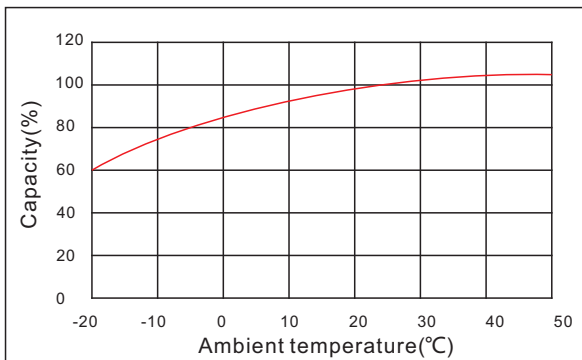
Discharge characteristic



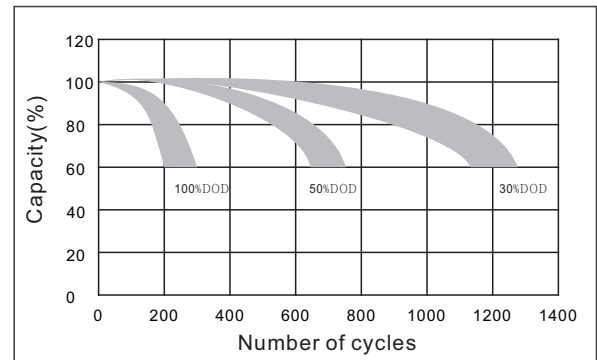
Charging characteristic



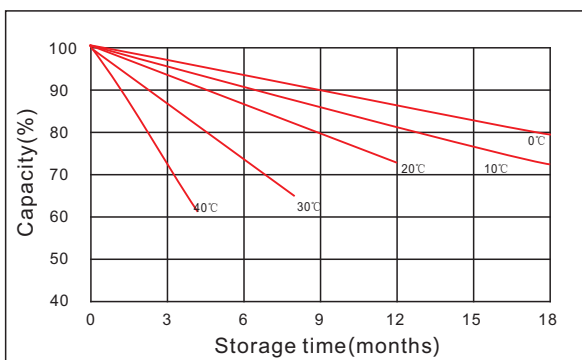
The effect of temperature on capacity



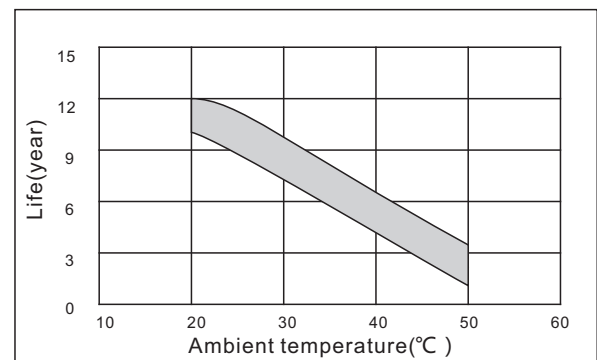
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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