

JLG12-120

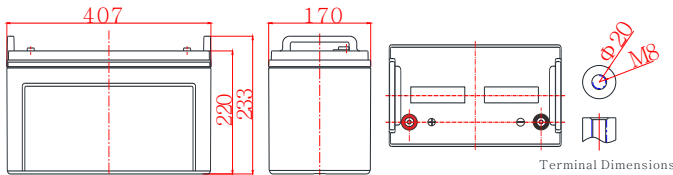


General Features

- > 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: 407(L) × 170(W) × 220(H) × 223(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	120Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 35.0kg (77.2lbs)
Container Material	ABS
Rated Capacity	120Ah 10Hour Rate (12.0A to 10.8V)
	94.8Ah 3Hour Rate (31.6A to 10.8V)
	75.4Ah 1Hour Rate (75.4A to 10.5V)
Internal resistance	Full charged at 25°C: 4.2 mΩ
Max. Discharge Current	1440A(5S)
Operating Temperature	Discharge: -20 ~50°C (-4 ~ 122°F)
	Charge: -20 ~50°C (-4 ~ 122°F)
	Storage: -20 ~50°C (-4 ~ 122°F)
Charge current:	Max. 30.0A ; Recom. 12.0A
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	4% of capacity declined per month at 25°C

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

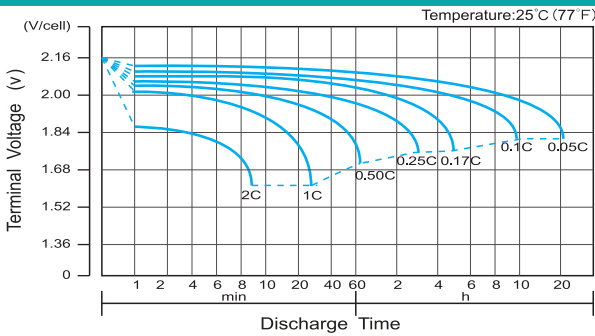
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	216	131	77.6	45.4	33.0	22.1	14.5	12.4	6.54
1.65V	209	129	77.1	45.2	32.6	21.9	14.4	12.3	6.50
1.70V	205	127	76.5	44.8	32.2	21.7	14.3	12.2	6.47
1.75V	198	126	75.4	44.1	31.8	21.4	14.2	12.1	6.44
1.80V	185	120	73.5	43.3	31.6	20.9	14.1	11.9	6.41
1.85V	165	110	68.1	41.1	29.7	19.8	13.5	11.6	6.30

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

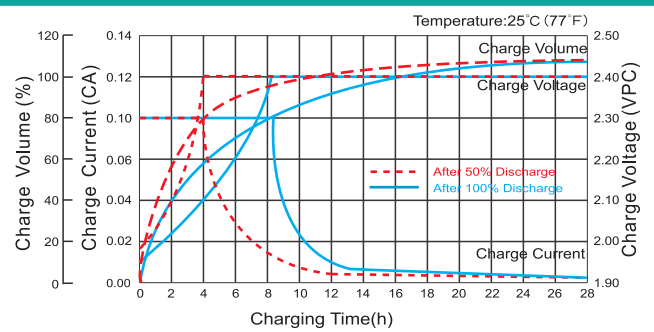
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	380	238	150	85.9	62.7	42.0	28.2	23.9	12.9
1.65V	373	235	149	85.6	61.9	41.7	28.0	23.6	12.9
1.70V	369	235	147	85.3	61.5	41.4	27.9	23.4	12.8
1.75V	367	234	146	84.8	61.2	41.1	27.7	23.2	12.8
1.80V	347	229	145	84.6	61.0	40.7	27.4	22.9	12.7
1.85V	310	210	135	80.8	58.0	38.8	26.5	22.6	12.6

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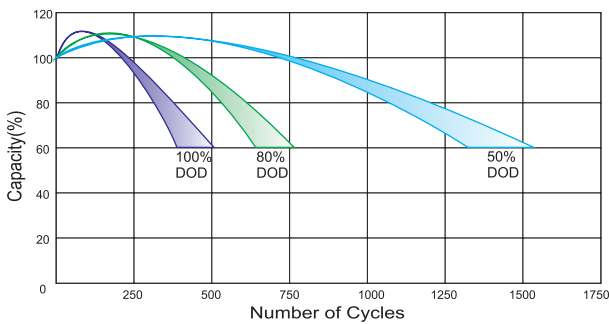
Discharge Characteristics Curve



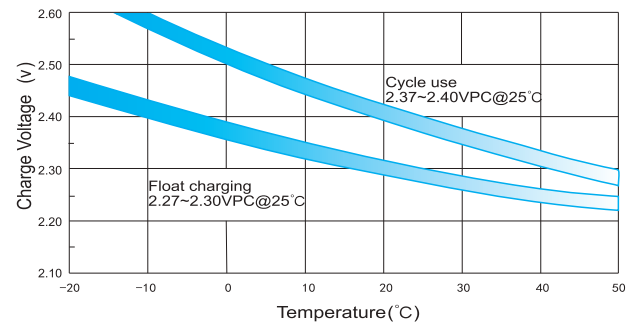
Charge Characteristic Curve for Cycle Use(IU)



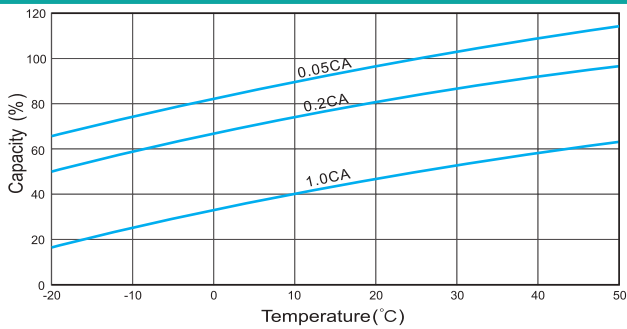
Cycle Life in Relation to Depth of Discharge



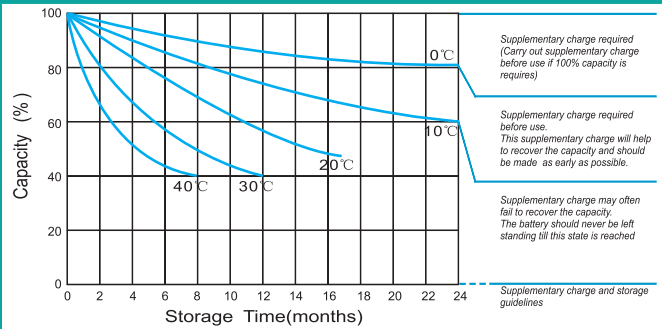
Relationship Between Charging Voltage and Temperature



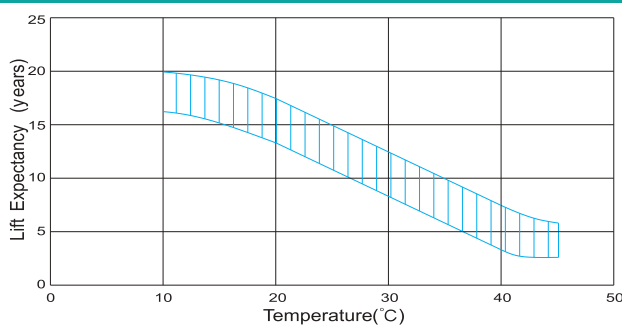
Temperature Effects on Capacity



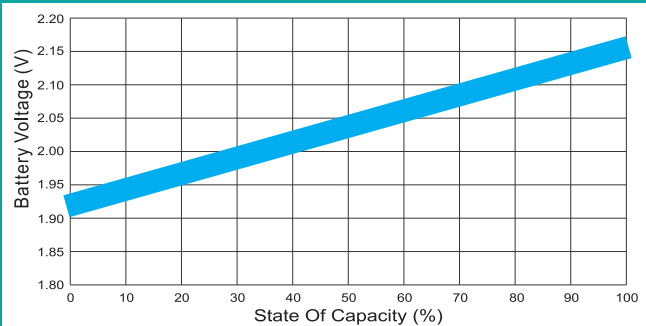
Storage Characteristics



Effect of Temperature on Long Term Life



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



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