

JLG12-85

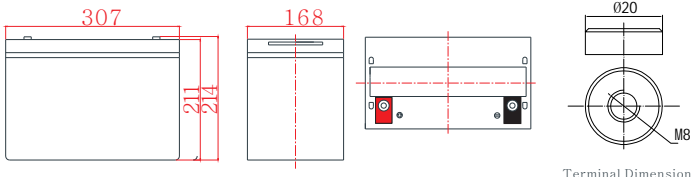


General Features

- › 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:307(L)×168(W)×211(H)×214(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	85Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 27.0kg (59.52lbs)
Container Material	ABS
Rated Capacity	85.0Ah → 20Hour Rate (4.25A to 10.5V)
	68.4Ah → 3Hour Rate (22.8A to 10.2V)
	52.4Ah → 1Hour Rate (52.4A to 9.6V)
Internal resistance	Full charged at 25°C: 8.5 mΩ
Max. Discharge Current	1020A(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. 21.25A ; Recom.8.5A
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)

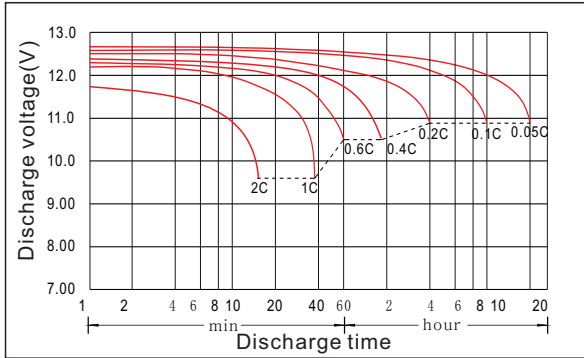
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	275	182	147	90.0	64.3	52.4	31.7	30.1	23.3	16.6	15.7	11.2	9.25	7.80	4.31
1.65V	266	181	143	88.3	63.9	52.1	31.4	30.0	23.2	16.4	15.6	11.1	9.17	7.72	4.29
1.70V	255	180	140	86.5	63.5	51.8	31.1	29.7	22.8	16.3	15.4	11.0	9.08	7.65	4.27
1.75V	235	177	135	85.9	62.5	51.0	30.8	29.3	22.5	16.1	15.2	10.9	9.01	7.57	4.25
1.80V	210	173	126	82.1	60.9	49.7	30.5	28.7	22.4	15.9	14.8	10.8	9.00	7.50	4.23
1.85V	188	160	112	74.9	56.5	46.0	29.6	27.3	21.1	15.4	14.1	10.5	8.58	7.27	4.15

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

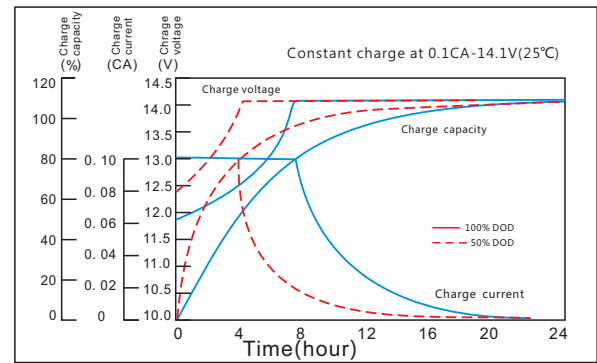
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	463	311	261	163	119	100	63.3	56.9	44.4	31.9	29.7	22.0	18.0	15.0	8.54
1.65V	445	308	257	161	118	98.7	62.6	56.7	43.9	31.5	29.5	21.8	17.8	14.8	8.50
1.70V	442	305	253	161	117	97.8	61.9	56.5	43.6	31.2	29.4	21.5	17.8	14.7	8.46
1.75V	412	302	252	160	116	96.9	61.5	56.2	43.3	31.0	29.2	21.4	17.7	14.6	8.42
1.80V	378	300	237	156	115	96.1	60.9	56.0	43.2	30.6	28.8	21.1	17.5	14.4	8.38
1.85V	335	278	211	143	107	89.1	59.8	53.5	41.1	30.2	27.5	20.8	16.9	14.2	8.30

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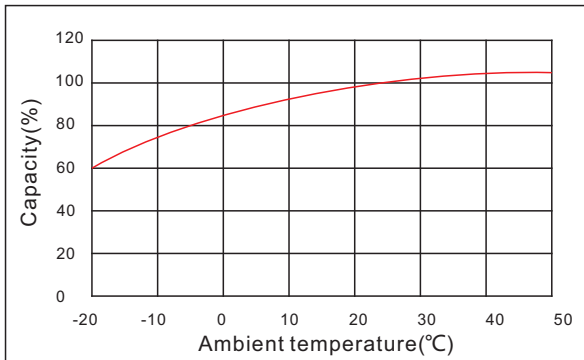
Discharge characteristic



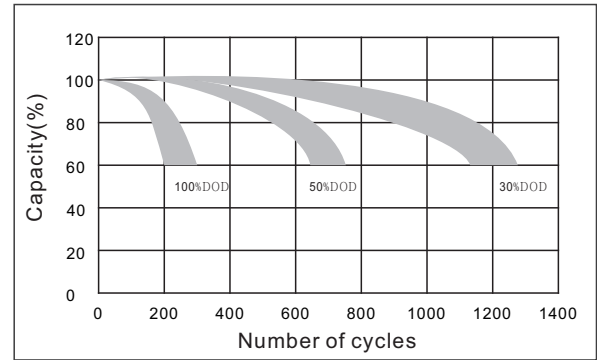
Charging characteristic



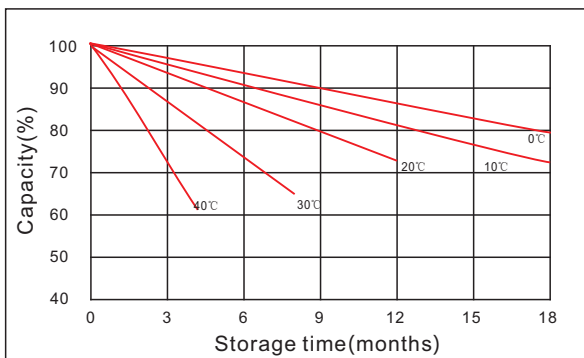
The effect of temperature on capacity



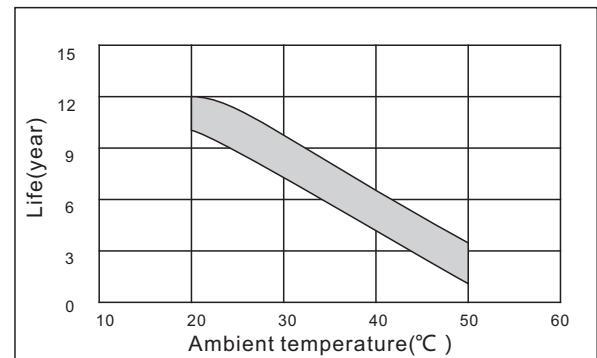
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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