



JDG Series AGM-GEL battery

JDG12-100(A)

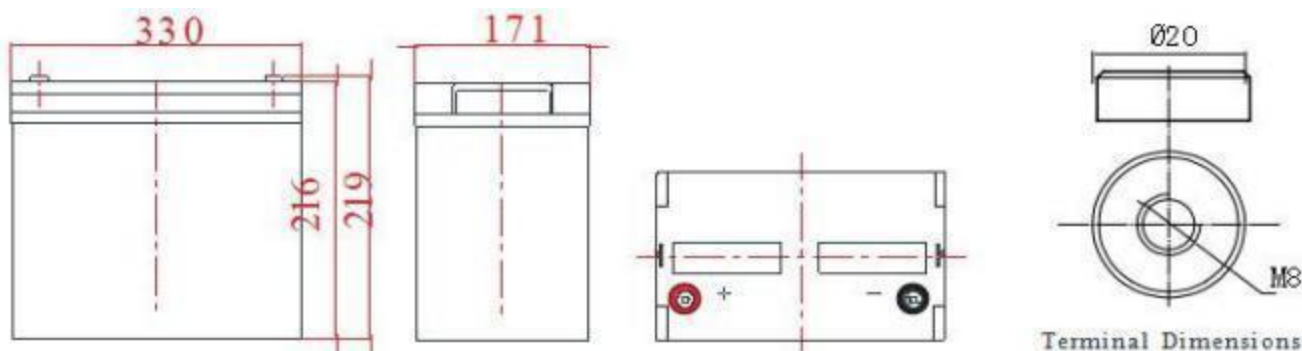
General Features

- 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:330(L) ×171(W) ×216(H) ×219(TH)/(±2mm)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	100Ah@10hour-rate to1.80V per cell @25°C
Design life	10 years
Terminal	M8
Approx. Weight	Approx 29.5kg±3% (65.04 ±3%lbs)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	2307A
Internal resistance(Full charged at 25°C:)	5.2 mΩ
Self discharge	3% of capacity declined per month at 25°C
Operating Temperature	
Discharge:	-20 ~50°C(-4~ 122°F)
Charge :	-20 ~50°C(-4~ 122°F)
Storage:	-20 ~50°C(-4~ 122°F)
Charge Method(25 °C)	
Charge current:	Max. 25A;Recom.10A
Float charge:13.5-13.8V	recom.13.8V(-18mV/ °C)
Equalize charge:13.8-14.1V	recom.14.1V(-24mV/ °C)
Cycle charge:14.4-15.0V	recom.14.7V(-30mV/ °C)

Standards

Executive standard: IEC 60896-21/22, GB/T 19638.1-2014, YD/T 1360-2005

Applications

- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting, Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

Rated Capacity

10Hour Rate (10.0A to 10.8V)	100Ah
3Hour Rate (26.6A to 10.2V)	79.8Ah
1Hour Rate (63.2A to 9.6V)	63.2Ah

Attain Certificate



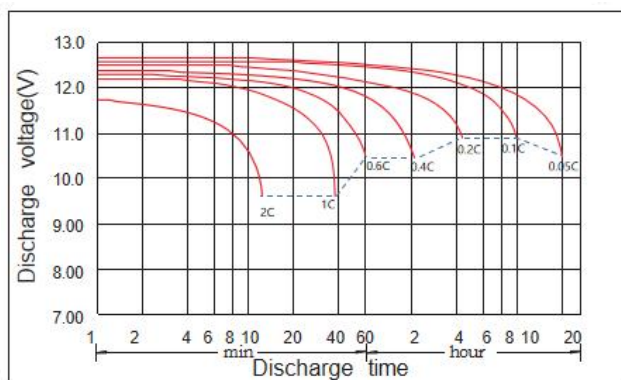
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



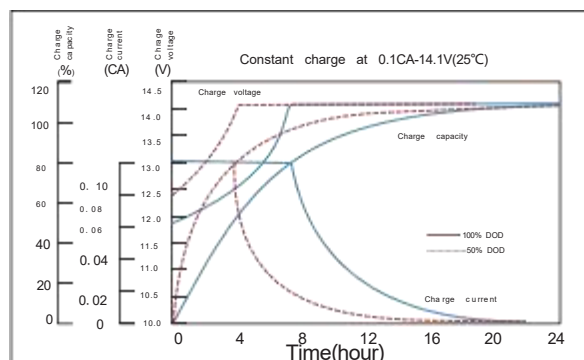
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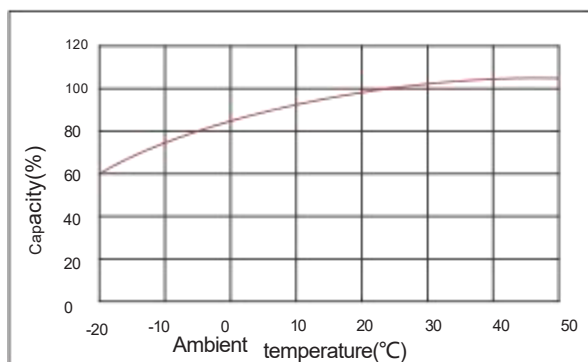
Discharge characteristic



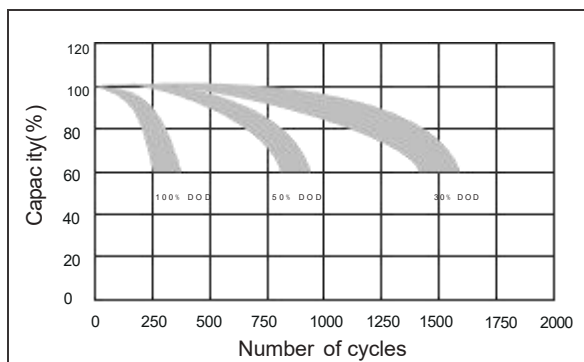
Charging characteristic



The effect of temperature on capacity



The effect of discharge depth on cycle life



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

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	184.5	109.5	80.2	63.2	47.0	37.5	28.2	22.7	19.3	16.4	12.7	10.5	5.52
1.65V	177.3	105.1	77.0	60.8	45.6	36.7	27.3	22.0	18.8	16.2	12.5	10.4	5.43
1.70V	166.0	100.5	73.6	58.2	43.8	35.1	26.6	21.5	18.3	15.9	12.3	10.3	5.38
1.75V	154.5	95.1	70.3	56.4	42.0	33.9	25.8	21.0	17.9	15.5	12.2	10.1	5.35
1.80V	145.5	92.5	67.8	54.0	40.0	32.8	25.5	20.4	17.4	15.0	12.0	10.0	5.30
1.85V	120.7	78.3	59.2	47.4	36.2	29.1	22.4	18.5	15.9	13.7	11.2	9.2	5.08

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

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	324.1	198.9	145.9	115.8	87.0	69.0	53.2	42.6	36.4	31.6	24.8	20.7	10.9
1.65V	314.5	193.0	141.2	112.5	84.8	67.8	52.4	41.6	35.6	31.3	24.5	20.5	10.7
1.70V	298.9	186.3	139.5	109.6	83.6	65.6	50.2	40.6	34.8	30.6	24.2	20.2	10.6
1.75V	282.2	179.9	133.8	107.2	81.2	63.9	49.9	39.7	34.0	29.9	23.9	20.0	10.6
1.80V	266.9	173.7	128.7	102.8	77.0	62.8	48.6	39.3	33.2	29.4	23.6	19.8	10.5
1.85V	222.4	151.1	114.4	91.9	71.6	57.5	43.6	36.1	31.1	26.9	22.2	18.6	9.87