



JDG Series AGM-GEL battery

JDG12-200(G)

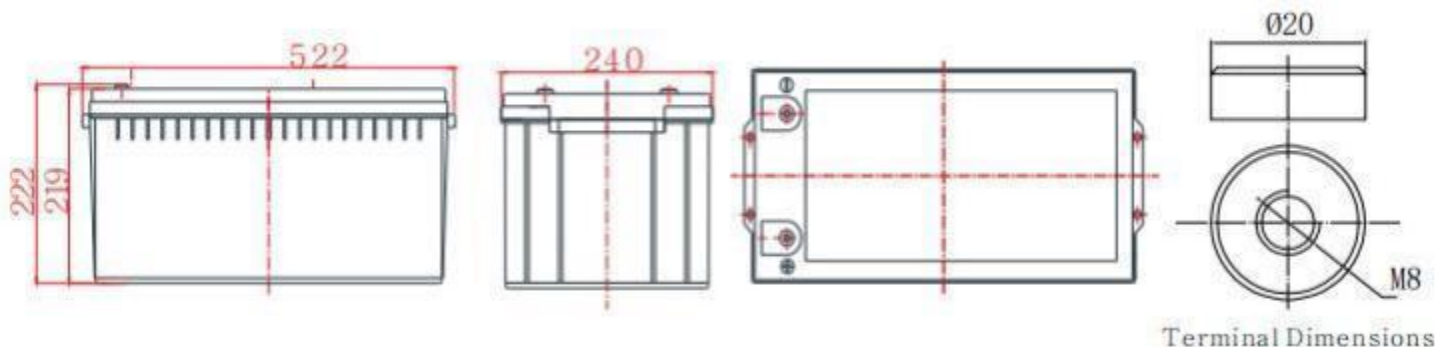
General Features

- 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:522(L) × 240(W) × 219(H) × 222(TH)/(±2mm)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	200Ah@10hour-rate to 1.80V per cell @25°C
Design life	10 years
Terminal	M8
Approx. Weight	Approx61.5kg±3% (135.58lbs±3%)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
short-circuit current	3000A
Internal resistance(Full charged at 25°C:)	4.0 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. 50A;Recom.20A
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 (20.0A to 10.8V)	200.0Ah
3Hour Rate (53.2A to 10.2V)	159.6Ah
1Hour Rate (127.1A to 9.6V)	127.1Ah

Attain Certificate



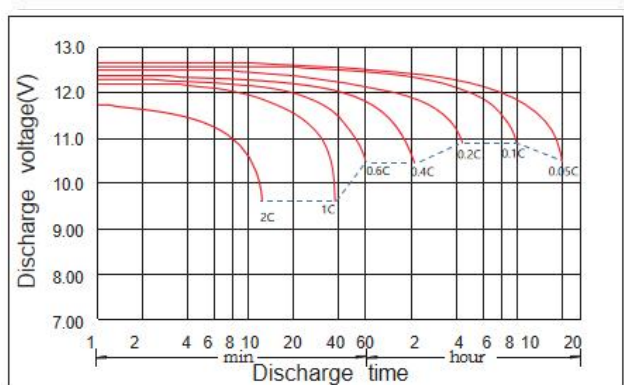
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



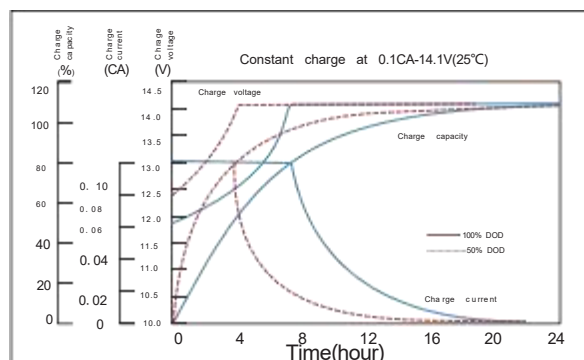
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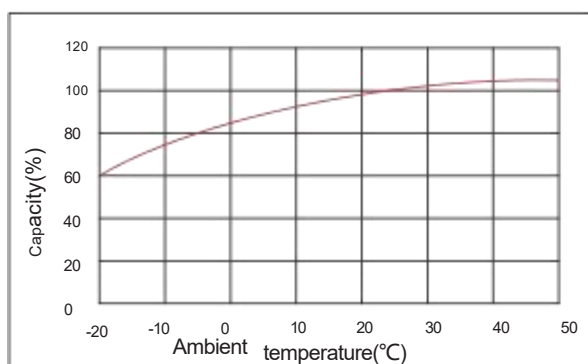
Discharge characteristic



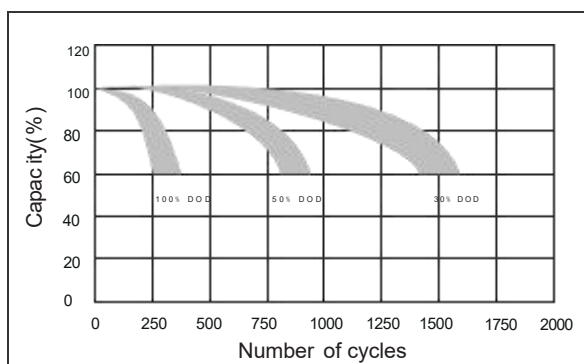
Charging characteristic



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	363.0	217.8	161.1	127.1	94.0	75.0	56.4	45.4	38.7	32.9	25.4	21.1	11.0
1.65V	348.7	209.1	154.7	122.2	91.1	73.3	54.7	44.0	37.7	32.4	25.1	20.8	10.9
1.70V	326.6	199.9	147.8	117.0	87.6	70.2	53.2	43.0	36.7	31.7	24.7	20.5	10.8
1.75V	303.9	189.1	141.3	113.4	83.9	67.8	51.6	41.9	35.8	30.9	24.3	20.3	10.7
1.80V	286.2	183.9	136.3	108.4	80.0	65.6	51.0	40.7	34.8	30.0	23.9	20.0	10.6
1.85V	237.5	155.7	118.9	95.4	72.3	58.1	44.8	36.9	31.7	27.4	22.5	18.4	10.2

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	637.6	395.6	293.2	232.8	173.9	138.0	106.4	85.1	72.7	63.1	49.5	41.5	21.7
1.65V	618.6	383.8	283.8	226.2	169.6	135.6	104.9	83.1	71.1	62.6	49.1	41.0	21.4
1.70V	588.1	370.5	280.4	220.2	167.1	131.2	100.5	81.2	69.5	61.2	48.4	40.5	21.2
1.75V	555.2	357.8	268.8	215.5	162.5	127.7	99.8	79.4	68.0	59.9	47.8	40.0	21.1
1.80V	525.1	345.4	258.7	206.6	154.1	125.7	97.1	78.5	66.5	58.8	47.1	39.5	21.0
1.85V	437.6	300.4	229.9	184.6	143.1	115.0	87.2	72.2	62.2	53.8	44.4	37.3	19.7