



JDG Series AGM-GEL battery

JDG12-200

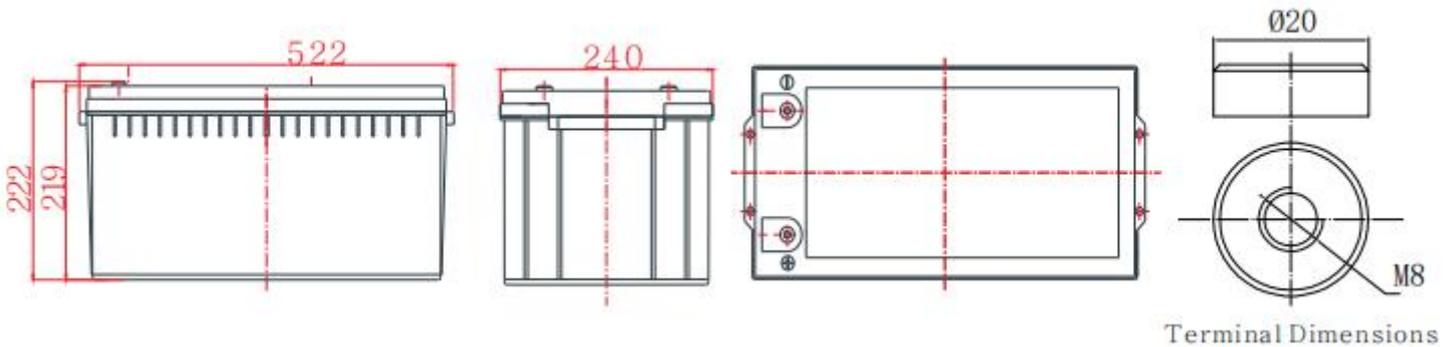
General Features

- ▶ 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)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	200Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 59.0kg (130lbs)
Container Material	ABS
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 YD/T 799-2010

Applications

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

Rated Capacity

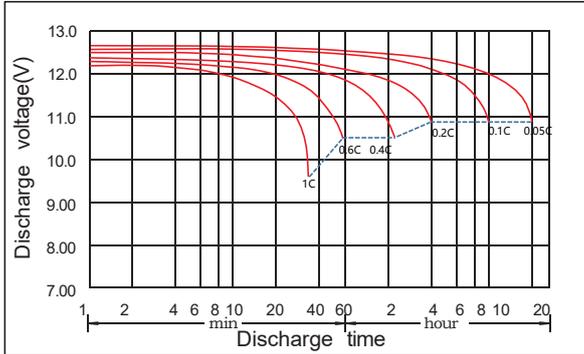
10Hour Rate (20.0A to 10.8V)	200.0Ah
3Hour Rate (56.8A to 10.2V)	170.4Ah
1Hour Rate (140A to 9.6V)	140.0Ah

Attain Certificate

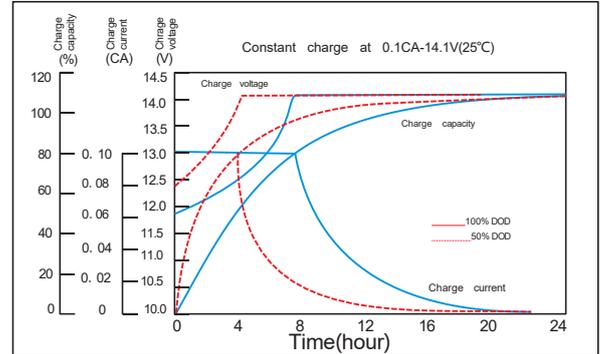


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

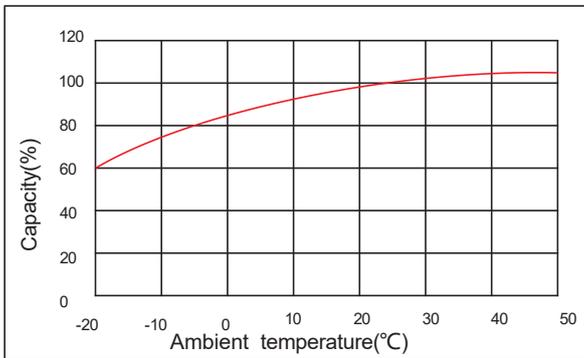
Discharge characteristic



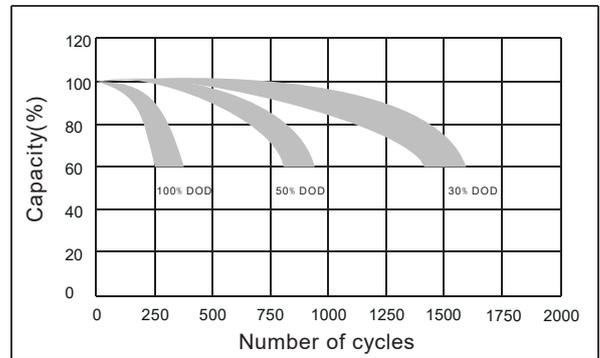
Charging characteristic



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	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	306	306	306	191	165	140	88.0	80.1	58.2	42.1	39.0	31.1	25.6	21.0	11.1
1.65V	301	301	301	188	163	139	87.2	79.7	57.5	41.7	38.7	30.9	25.4	20.8	11.0
1.70V	289	289	289	184	161	138	86.3	79.1	56.8	41.3	38.3	30.5	25.2	20.6	10.8
1.75V	266	266	266	183	160	136	85.5	77.9	56.1	40.9	37.8	30.3	25.0	20.4	10.6
1.80V	238	238	238	175	153	132	84.7	76.4	55.7	40.5	36.8	29.9	24.8	20.0	10.5
1.85V	212	212	212	160	141	123	82.0	72.6	52.5	39.3	34.9	29.1	23.8	19.4	10.2

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	520	520	520	374	324	274	173	158	115	82.9	76.8	61.3	50.8	41.6	22.0
1.65V	512	512	512	368	320	273	172	157	113	82.2	76.2	60.8	50.3	41.2	21.7
1.70V	491	491	491	361	316	271	170	156	112	81.3	75.4	60.2	50.0	40.8	21.4
1.75V	452	452	452	359	313	268	168	153	111	80.6	74.6	59.7	49.5	40.4	21.0
1.80V	404	404	404	343	301	260	167	151	110	79.8	72.4	58.9	49.1	39.6	20.7
1.85V	363	363	363	315	278	243	162	144	104	77.9	69.2	57.5	47.4	38.7	20.4