JDG Series AGM- GEL battery

JDG12-120(C)

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

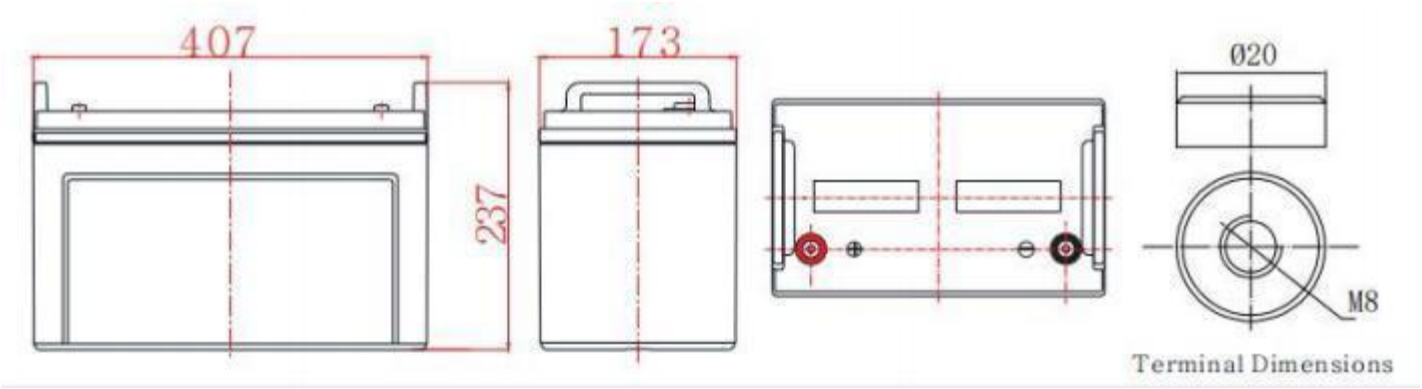
▶Long cycle life, excellent deep cycle discharge ability

▶ Excellent charge acceptance ability

▶ Precision sealing technology

▶Long life

Dimension:407(L) ×173(W) ×237(H) ×237(TH)/(±2mm) **Unit: mm**



Specification	
Nominal Voltage	12V
Nominal Capacity	120Ah@20hour-rate to1.75V per cell 25℃
Design life	10 years
Terminal	M8
Approx. Weight	Approx33.5kg±3% (73.85 ±3%lbs)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	2500A
Internal resistance(Full charged at 25°C:)	4.8 mΩ
Self discharge	3% of capacity declined per month at 25°C
Operating Temperature	
Discharge:	-20 ~50℃(-4~ 122°F)
Charge :	-20 ~50℃(-4~ 122°F)
Storage:	-20 ~50℃(-4~ 122°F)
Charge Method(2 5 ° C)	
Charge current:	Max. 30.0A;Recom.12A
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

20Hour Rate (6.00A to 10.5V)	120.0Ah
3Hour Rate (29.8A to 10.2V)	29.8Ah
1Hour Rate (70.9A to 9.6V)	70.9Ah

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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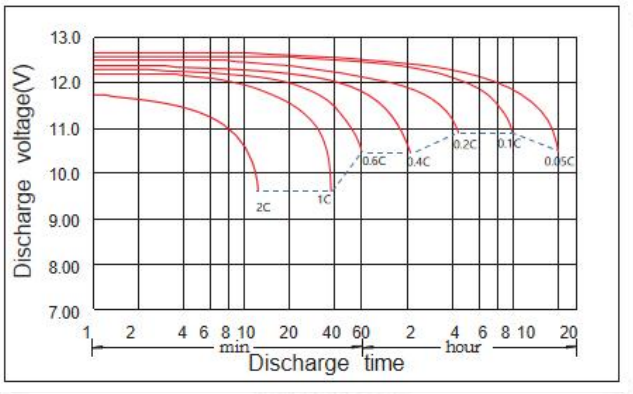
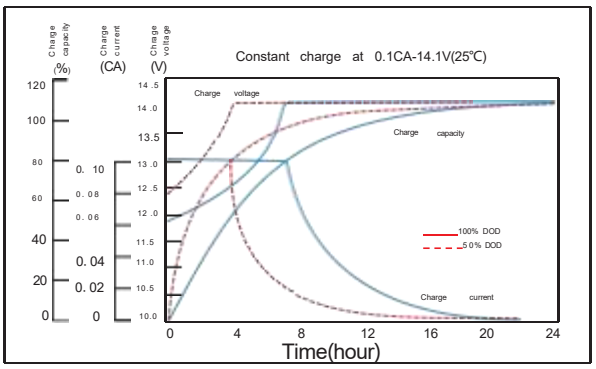
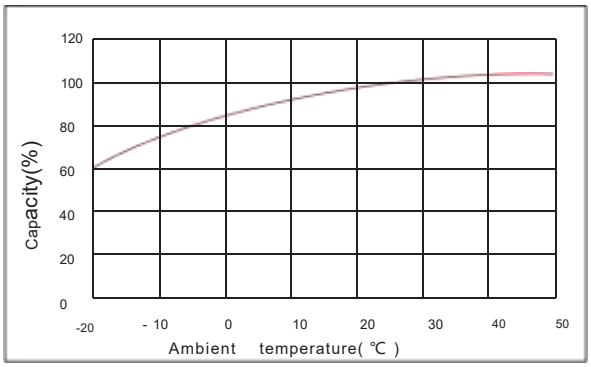
Discharge characteristic



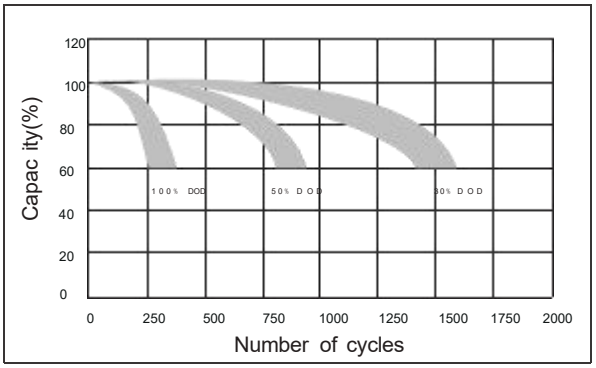
Charging characteristic



The effect of temperature on capacity



The effect of discharge depth on cycle life



Constant Current Discharge Characteristics Unit:A (25℃,77℉)

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	203.8	122.8	89.9	70.9	52.7	42.0	31.6	25.5	21.7	18.4	14.2	11.8	6.19
1 65V	195.7	117.9	86.3	68.1	51.1	41.1	30.6	24.7	21.1	18.2	14.1	11.7	6.09
1.70V	183.3	112.7	82.5	65.3	49.1	39.4	29.8	24.1	20.6	17.8	13.8	11.5	6.03
1.75V	170.6	106.6	78.8	63.2	47.1	38.0	28.9	23.5	20.0	17.3	13.6	11.4	6.00
1 80V	160.7	103.7	76.0	60.5	44.8	36.8	28.6	22.8	19.5	16.8	13.4	11.2	5.94
1.85V	133.3	87.7	66.3	53.2	40.5	32.6	25.1	20.7	17.8	15.3	12.6	10.3	5.70

Constant Power Discharge Characteristics Unit: W/cell (25℃ ,77℉)

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	357.9	223.0	163.5	129.8	97.5	77.3	59.7	47.7	40.8	35.4	27.8	23.2	12.2
1 65V	347.2	216.3	158.3	126.1	95.0	76.0	58.8	46.6	39.9	35.1	27.5	23.0	12.0
1.70V	330.1	208.8	156.4	122.8	93.7	73.6	56.3	45.5	39.0	34.3	27.1	22.7	11.9
1.75V	311.6	201.7	150.0	120.2	91.1	71.6	56.0	44.5	38.1	33.6	26.8	22.4	11.8
1 80V	294.7	194.7	144.3	115.3	86.4	70.5	54.4	44.0	37.3	33.0	26.4	22.2	11.8
1.85V	245.6	169.3	128.2	103.0	80.2	64.4	48.9	40.5	34.9	30.2	24.9	20.9	11.1

Jiangxi JingJiu Power Science & Technology Co., LTD.

Add: 1388 Fushan No.1 Street, Xiaolan Economic Development Zone, Nanchang, Jiangxi, China.