



JDG Series AGM-GEL battery

6-EVF-55

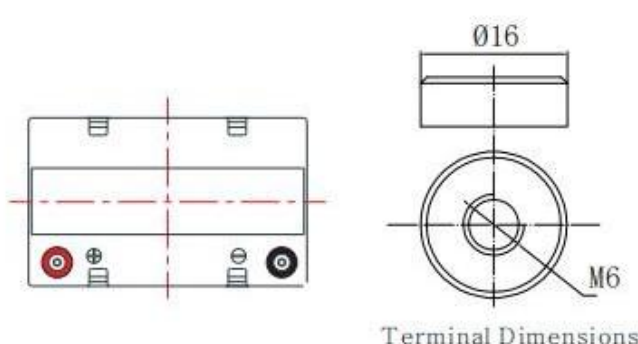
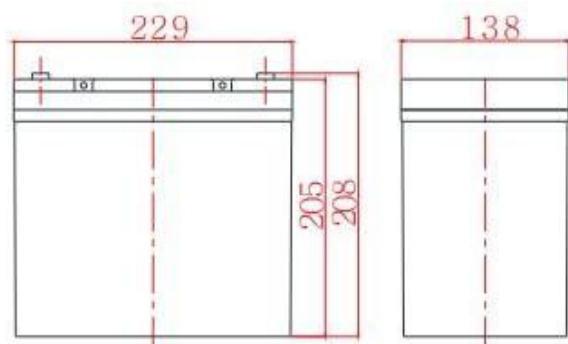
General Features

- 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:229(L)×138(W) ×205(H)×208(TH)

Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V
Nominal Capacity	55Ah@10hour-rate to 1.80V per cell @25°C
Design life	10 years
Terminal	M6
Approx. Weight	Approx16.5kg±3% (36.4±3%lbs)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
short-circuit current	1212A
Internal resistance(Full charged at 25°C:)	9.9 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. 13.8A;Recom.5.5A
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

Applications

- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting, Auto control system
- Solar/wind generating storage cyclic
- Motive Power Applications

Rated Capacity

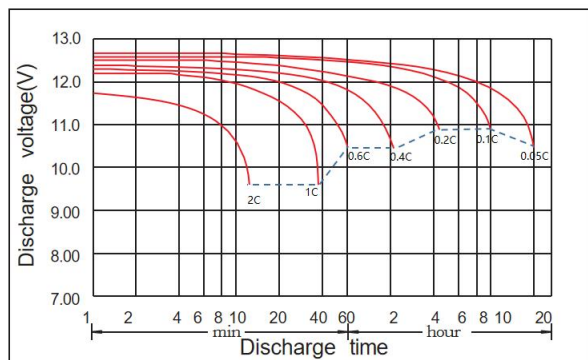
10Hour Rate (5.50A to 10.8V)	55.0Ah
3Hour Rate (14.6A to 10.2V)	43.8Ah
1Hour Rate (34.8A to 9.6V)	34.8Ah

Attain Certificate

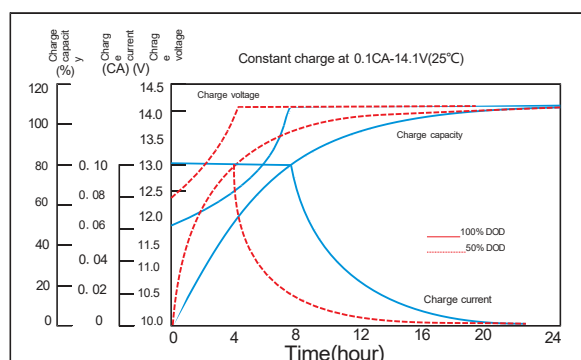
ISO 9001 CGM	ISO 14001 CGM	OHSAS 18001 CGM	RoHS
UL	CE	FC	PS E

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.

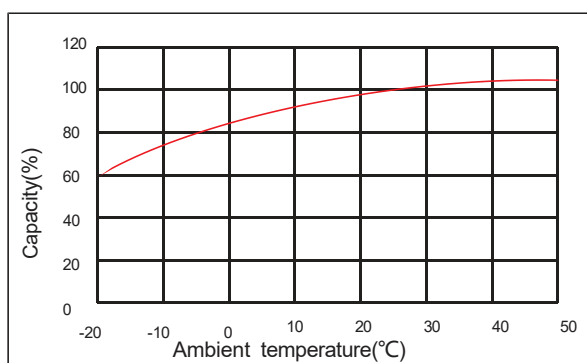
Discharge characteristic



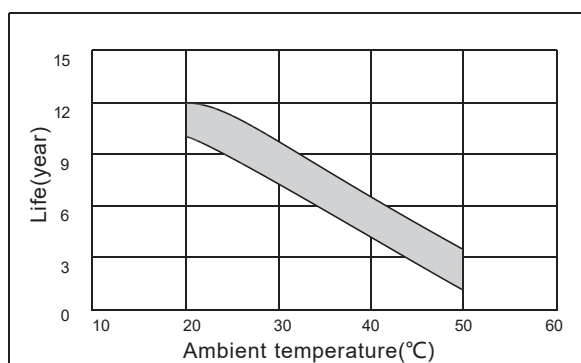
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float 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	99.5	59.3	43.6	34.8	25.8	20.6	15.5	12.5	10.6	9.04	6.97	5.80	3.04
1.65V	95.5	57.0	41.9	33.4	25.1	20.2	15.0	12.1	10.4	8.91	6.90	5.73	2.99
1.70V	89.5	54.4	40.1	32.0	24.1	19.3	14.6	11.8	10.1	8.72	6.79	5.65	2.96
1.75V	83.3	51.5	38.3	31.0	23.1	18.6	14.2	11.5	9.84	8.50	6.69	5.57	2.94
1.80V	78.4	50.1	36.9	29.7	22.0	18.1	14.0	11.2	9.58	8.25	6.58	5.50	2.91
1.85V	65.1	42.4	32.2	26.1	19.9	16.0	12.3	10.2	8.72	7.52	6.18	5.07	2.79

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	174.7	107.8	79.4	63.7	47.8	37.9	29.3	23.4	20.0	17.4	13.6	11.4	5.98
1.65V	169.5	104.5	76.9	61.9	46.6	37.3	28.8	22.9	19.6	17.2	13.5	11.3	5.89
1.70V	161.1	100.9	76.0	60.3	46.0	36.1	27.6	22.3	19.1	16.8	13.3	11.1	5.83
1.75V	152.1	97.5	72.8	59.0	44.7	35.1	27.5	21.8	18.7	16.5	13.2	11.0	5.80
1.80V	143.9	94.1	70.1	56.5	42.4	34.6	26.7	21.6	18.3	16.2	13.0	10.9	5.77
1.85V	119.9	81.8	62.3	50.5	39.4	31.6	24.0	19.9	17.1	14.8	12.2	10.2	5.43