



JDG Series AGM-GEL battery

6-EVF-12

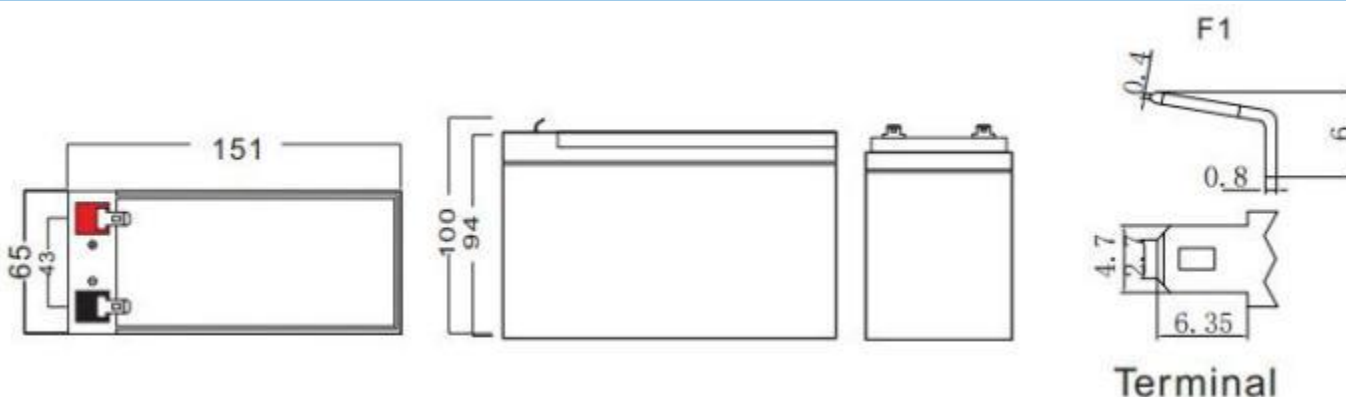
General Features

- 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: 151(L)×98(W) ×95(H)×100(TH)/(±2.0)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	14.0Ah@20hour-rate to 1.75V per cell @25°C
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx3.80kg±3% (8.37lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	666A
Internal resistance(Full charged at 25°C:)	18.0 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. 3.50A;Recom.1.40A
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 61056-2,
GB/T 19639.1-2014

Applications

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

Rated Capacity

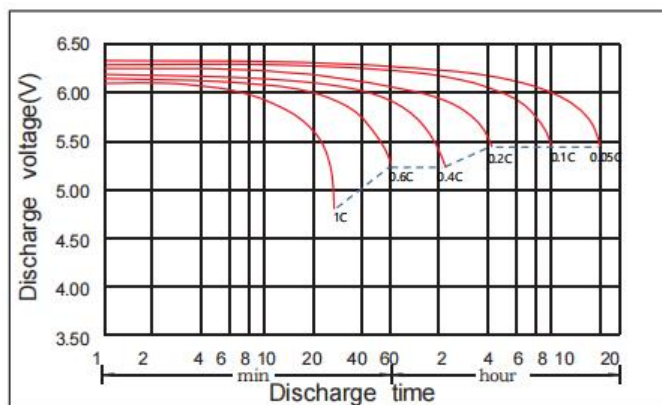
20Hour Rate (0.70A to 10.5V)	14.0Ah
3Hour Rate (3.648A to 10.2V)	10.944Ah
1Hour Rate (8.653A to 9.6V)	8.653Ah

Attain Certificate

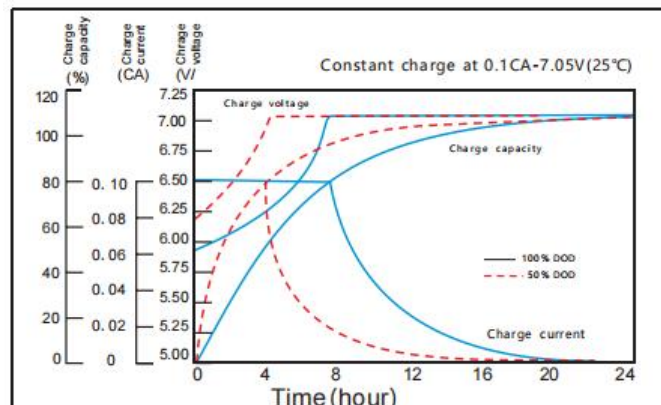


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

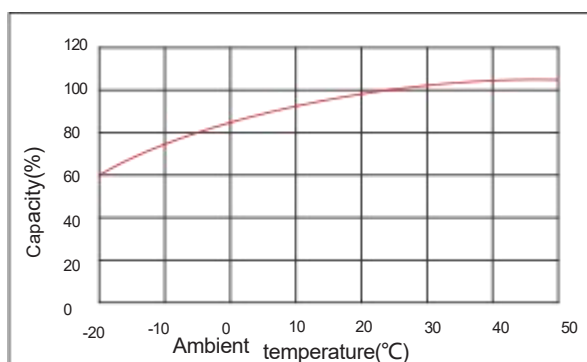
Discharge characteristic



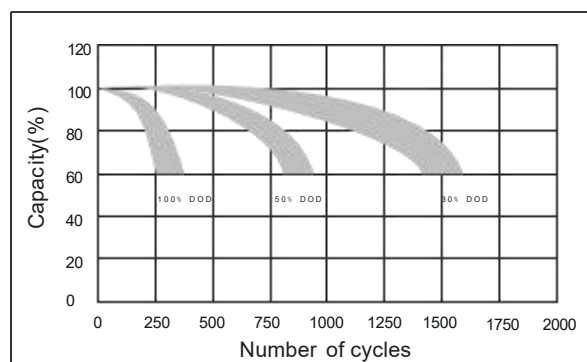
Charging characteristic



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	51.91	36.10	26.33	15.55	11.02	8.653	6.195	5.187	3.908	3.086	2.593	2.219	1.679	1.376	0.726
1.65V	49.02	34.03	24.91	14.77	10.51	8.249	5.982	5.021	3.787	3.002	2.525	2.172	1.660	1.359	0.714
1.70V	44.68	31.57	23.33	14.27	10.15	7.954	5.788	4.856	3.648	2.920	2.460	2.101	1.634	1.338	0.706
1.75V	40.44	29.54	22.50	13.64	9.663	7.663	5.548	4.686	3.575	2.846	2.398	2.038	1.612	1.323	0.700
1.80V	35.51	26.77	20.77	13.03	9.301	7.370	5.390	4.556	3.464	2.764	2.336	1.966	1.584	1.308	0.690
1.85V	28.18	21.75	17.24	11.23	8.115	6.610	4.981	4.140	3.202	2.569	2.178	1.870	1.487	1.227	0.649

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	86.89	59.58	45.54	28.24	20.85	16.28	11.84	9.830	7.394	5.924	4.998	4.298	3.278	2.704	1.429
1.65V	82.21	57.72	44.19	27.40	19.81	15.85	11.65	9.563	7.222	5.785	4.886	4.153	3.248	2.675	1.408
1.70V	76.63	54.97	42.00	26.45	18.97	15.13	11.27	9.299	7.027	5.649	4.775	4.049	3.205	2.638	1.394
1.75V	70.89	52.81	41.09	25.54	18.61	14.80	10.85	9.016	6.916	5.525	4.671	3.959	3.167	2.607	1.384
1.80V	63.57	48.63	38.48	24.66	17.97	14.18	10.58	8.809	6.728	5.386	4.567	3.874	3.120	2.569	1.366
1.85V	51.52	40.45	32.39	21.45	15.96	12.90	9.739	8.049	6.248	5.025	4.273	3.694	2.936	2.429	1.287