



JDG Series AGM-GEL battery

6-DZF-18

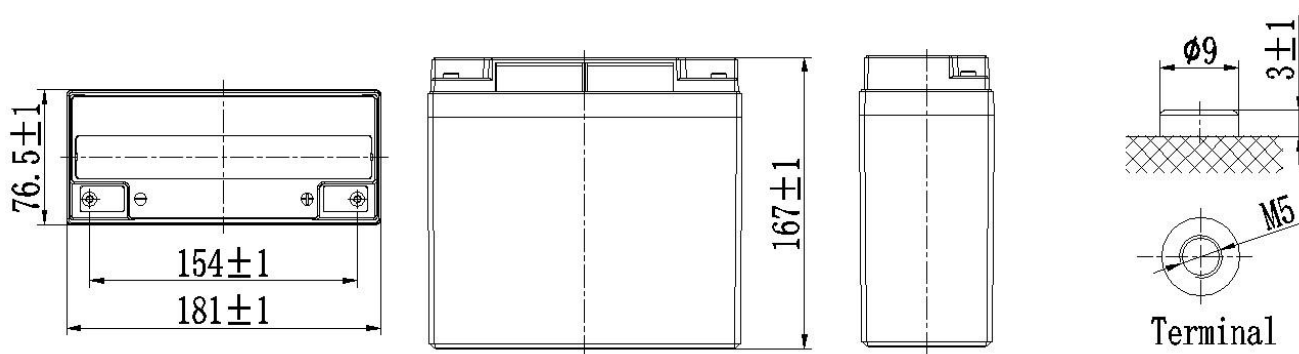
General Features

- ▶ 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: 181(L) × 76(W) × 167(H) × 167(TH) / (±2.0)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	22.0Ah @20 hour-rate to 1.75Vper cell @25°C
Design life	5 years
Terminal	M5
Approx. Weight	Approx 5.80kg±3% (12.78lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	645A
Internal resistance(Full charged at 25°C:)	18.6 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. 5.0A; Recom. 2.0A
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 (0.9A to 10.5V)	22.0Ah
3Hour Rate (5.211A to 10.2V)	17.19Ah
1Hour Rate (12.24A to 9.6V)	12.24Ah

Attain Certificate

	RoHS

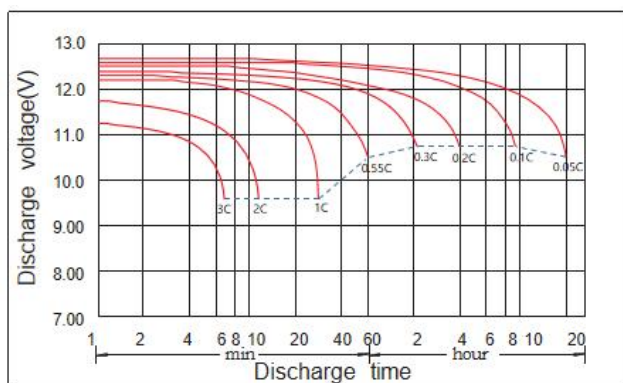
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



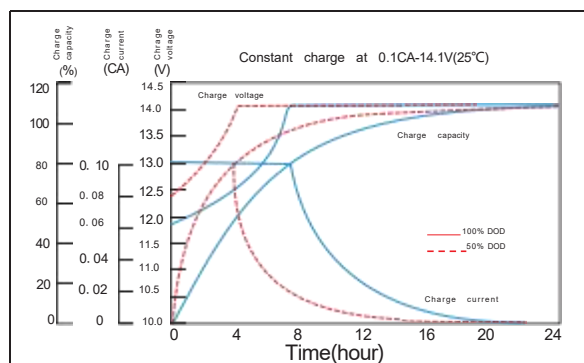
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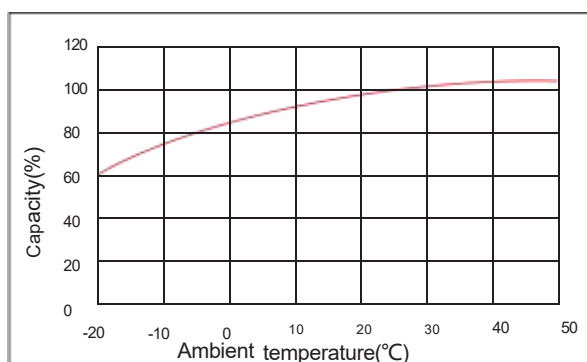
Discharge characteristic



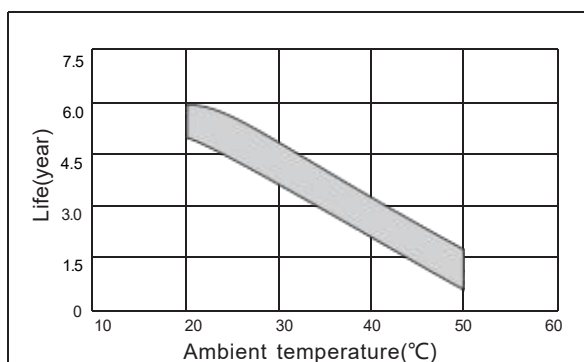
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float 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	81.57	56.73	41.38	24.43	17.32	13.60	9.734	8.151	6.141	4.849	4.074	3.487	2.638	2.162	1.140
1.65V	77.04	53.48	39.14	23.22	16.51	12.96	9.400	7.891	5.952	4.718	3.968	3.414	2.608	2.135	1.122
1.70V	70.22	49.62	36.66	22.42	15.95	12.50	9.095	7.630	5.732	4.589	3.865	3.302	2.568	2.103	1.109
1.75V	63.54	46.42	35.35	21.43	15.18	12.04	8.719	7.364	5.617	4.472	3.768	3.203	2.532	2.080	1.100
1.80V	55.79	42.06	32.64	20.48	14.62	11.58	8.470	7.159	5.443	4.343	3.671	3.089	2.489	2.055	1.084
1.85V	44.29	34.18	27.09	17.64	12.75	10.39	7.827	6.506	5.032	4.037	3.423	2.939	2.337	1.929	1.021

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	136.5	93.62	71.57	44.38	32.77	25.58	18.60	15.45	11.62	9.309	7.853	6.754	5.151	4.249	2.245
1.65V	129.2	90.71	69.44	43.05	31.13	24.90	18.31	15.03	11.35	9.091	7.678	6.526	5.104	4.204	2.213
1.70V	120.4	86.38	66.01	41.56	29.81	23.77	17.71	14.61	11.04	8.877	7.504	6.362	5.037	4.146	2.190
1.75V	111.4	82.98	64.58	40.14	29.24	23.26	17.05	14.17	10.87	8.683	7.341	6.221	4.977	4.096	2.174
1.80V	99.90	76.42	60.47	38.75	28.24	22.29	16.63	13.84	10.57	8.464	7.177	6.088	4.903	4.036	2.146
1.85V	80.96	63.57	50.89	33.70	25.08	20.27	15.30	12.65	9.818	7.897	6.715	5.805	4.614	3.817	2.023