京九电源
KIJO BATTERY

JDG Series AGM-GEL battery

JDG12-120

Applications

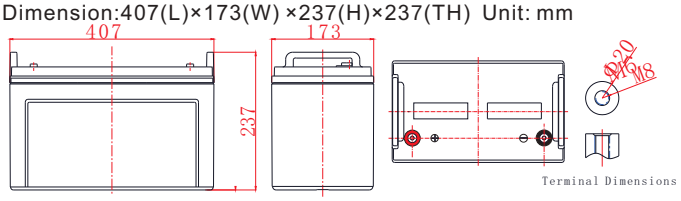
- Solar / wind energy and other new energy storage
- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting、Auto control system
- Other general purpose

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

ISO 9001 CQM · ISO 14001 CQM · OHSAS 18001 CQM · RoHS · UL · CE · FC · PSE · C-Tick

Dimension:407(L)×173(W) ×237(H)×237(TH) Unit: mm



Specification

Nominal Voltage	12V	
Nominal Capacity	120Ah	
Design life	12 years	
Terminal	M8	
Approx. Weight	Approx 35.0kg (77.2lbs)	
Container Material	ABS	
Rated Capacity	120Ah	10Hour Rate (12.0A to 10.8V)
	96.6Ah	3Hour Rate (32.2A to 10.8V)
	78.6Ah	1Hour Rate (78.6A to 10.5V)
Internal resistance	Full charged at 25°C:	4.5 mΩ
Max. Discharge Current	1440A(5S)	
Operating Temperature	Discharge:	-40 ~60℃(-40~ 140°F)
	Charge:	-20 ~50℃(-4~ 122°F)
	Storage:	-20 ~50℃(-4~ 122°F)
Charge Method (25 °C)	Charge current:	Max. 30.0A ; Recom.12.0A
	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)
Self discharge	3% of capacity declined per month at 25°C	

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

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	423	227	138	80.8	46.3	33.6	22.6	14.8	12.5	6.55
1.65V	410	220	136	80.3	46.1	33.3	22.3	14.7	12.4	6.52
1.70V	394	216	133	79.7	45.7	32.8	22.1	14.6	12.2	6.48
1.75V	362	209	132	78.6	45.0	32.5	21.9	14.5	12.1	6.46
1.80V	324	194	127	76.6	44.2	32.2	21.3	14.3	12.0	6.42
1.85V	289	173	115	70.9	42.0	30.3	20.2	13.8	11.6	6.31

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

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	709	400	250	153	87.6	64.0	42.8	28.8	24.0	13.0
1.65V	682	393	248	152	87.4	63.2	42.6	28.6	23.8	12.9
1.70V	678	388	248	150	87.0	62.8	42.2	28.5	23.5	12.8
1.75V	633	386	246	149	86.6	62.4	42.0	28.2	23.3	12.8
1.80V	581	365	241	148	86.3	62.2	41.5	28.0	23.0	12.7
1.85V	519	326	221	137	82.4	59.2	39.6	27.0	22.7	12.6

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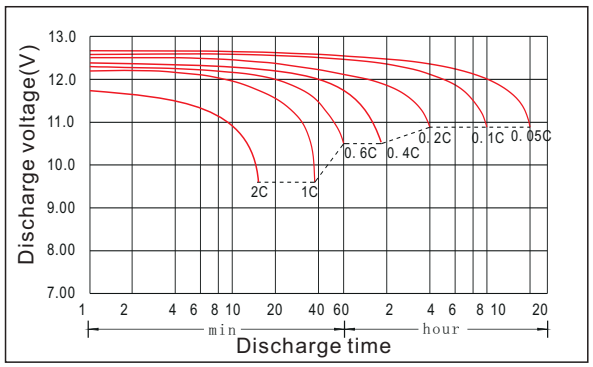
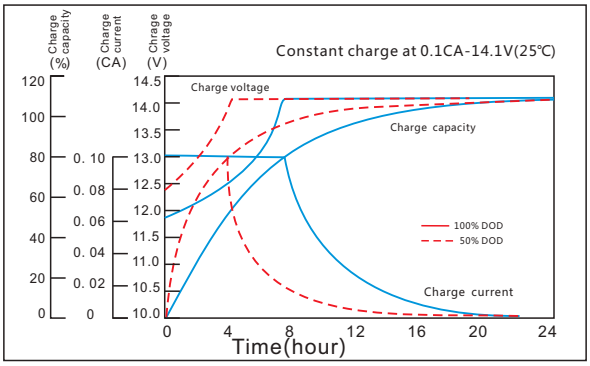
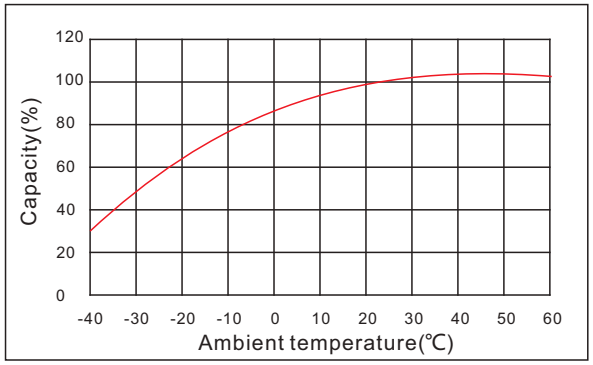
Discharge characteristic



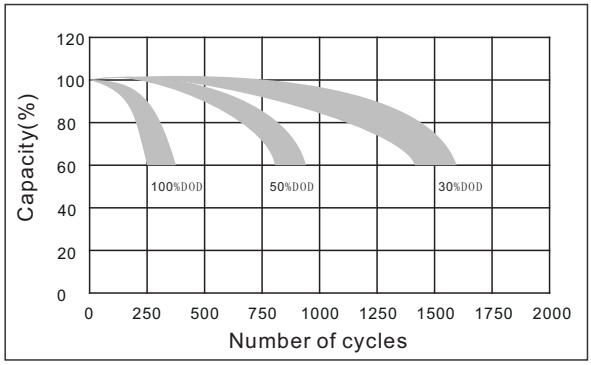
Charging characteristic



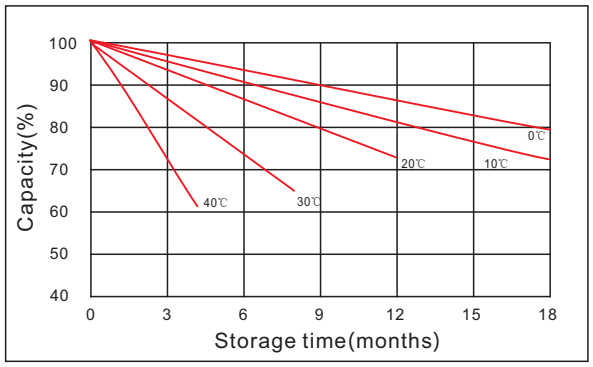
The effect of temperature on capacity



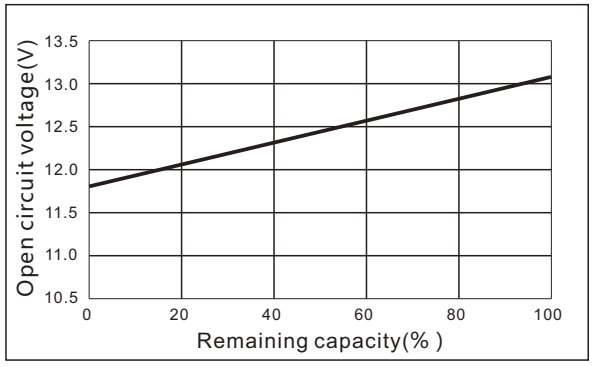
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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