JDG Series AGM-GEL battery

JDG12-100

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

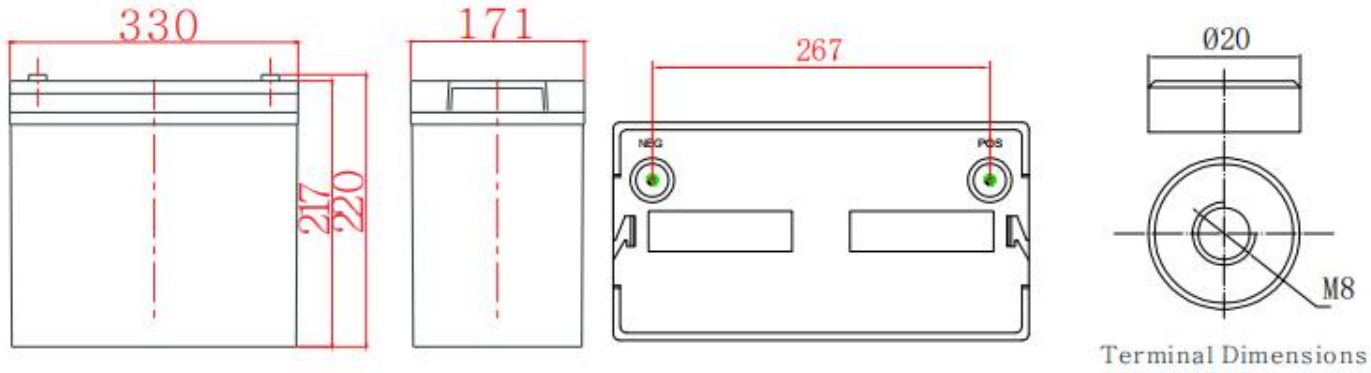
▶Long cycle life, excellent deep cycle discharge ability

▶Excellent charge acceptance ability

▶Precision sealing technology

▶Long life

Dimension:330(L)×171(W) ×217(H)×220(TH) **Unit: mm**



Terminal Dimensions

Specification	
Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx28.0kg (61.7lbs)
Container Material	ABS
short-circuit current	2181A
Internal resistance(Full charged at 25°C:)	5.5 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(25 °C)	
Charge current:	Max. 25A;Recom.10A
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 YD/T 799-2010

Applications

▶UPS/EPS

▶Power systems

▶Telecommunications system

▶Emergency lighting、Auto control system

▶Solar/wind generating storage cyclic

▶Other general purpose

Rated Capacity

20Hour Rate (5.00A to 10.5V)	100.0Ah
3Hour Rate (27.4A to 10.2V)	82.2Ah
1Hour Rate (67.3A to 9.6V)	67.3Ah

Attain Certificate

ISO 9001 COM · ISO 14001 COM · OHSAS 18001 COM · RoHS

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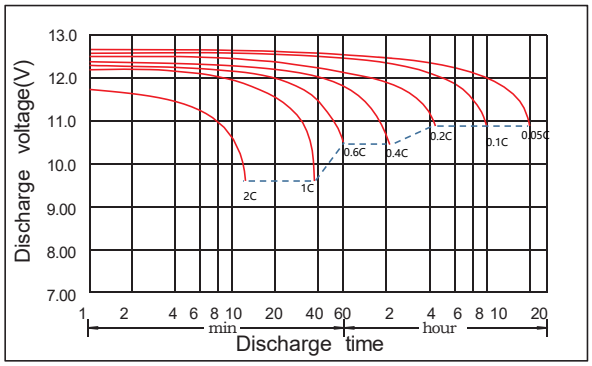
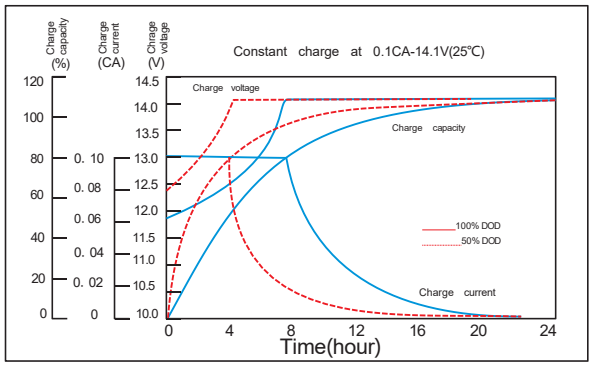
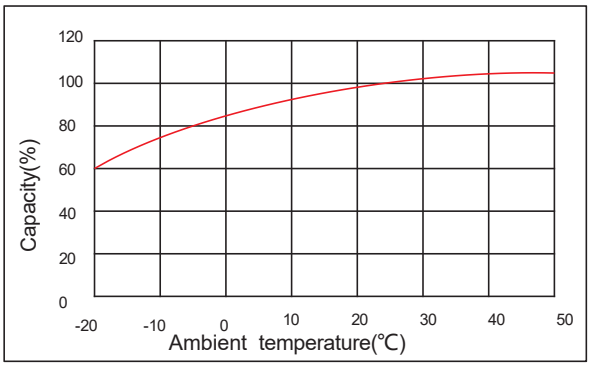
Discharge characteristic



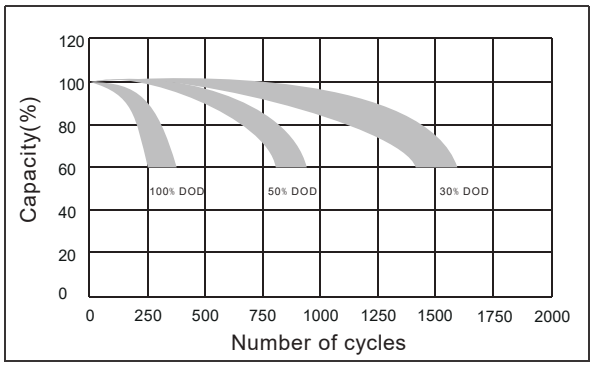
Charging characteristic



The effect of temperature on capacity



The effect of discharge depth on cycle life



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

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	270	207	168	98.0	82.9	67.3	42.5	38.7	28.1	20.4	18.9	15.1	12.4	9.63	5.07
1.65V	262	206	163	96.3	82.4	66.9	42.1	38.5	27.8	20.2	18.7	14.9	12.3	9.54	5.05
1.70V	251	205	160	94.6	81.8	66.4	41.7	38.2	27.4	20.0	18.5	14.8	12.2	9.44	5.02
1.75V	232	202	154	93.8	80.6	65.5	41.3	37.6	27.1	19.8	18.3	14.7	12.1	9.35	5.00
1.80V	207	197	144	89.5	78.6	63.8	40.9	36.9	27.0	19.6	17.8	14.5	12.0	9.26	4.97
1.85V	185	183	128	82.0	72.8	59.1	39.5	35.1	25.4	19.0	17.0	14.1	11.5	9.02	4.89

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

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	453	351	296	177	153	127	84.7	73.3	53.5	40.1	35.8	29.4	24.1	18.6	10.0
1.65V	436	349	291	176	152	126	83.9	73.1	52.8	39.7	35.6	29.1	23.9	18.5	9.91
1.70V	433	346	287	176	151	125	83.0	72.8	52.5	39.3	35.3	28.8	23.8	18.2	9.81
1.75V	404	343	285	175	150	124	82.2	72.4	52.2	38.9	35.1	28.6	23.6	18.1	9.72
1.80V	372	340	269	172	149	123	81.3	72.2	52.0	38.5	34.7	28.3	23.4	17.8	9.63
1.85V	331	318	241	157	139	115	80.1	69.0	49.5	37.9	33.1	27.8	22.6	17.6	9.54

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