

JDG12-100

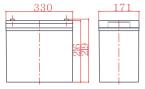


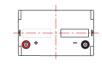
General Features

- 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) ×216(H)×219(TH) Unit: mm







Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 29.5kg (65.0lbs)
Container Material	ABS
Rated Capacity	100Ah 10Hour Rate (10.0A to 10.8V)
	78.9Ah 3Hour Rate (26.3A to 10.8V)
	64.2Ah 1Hour Rate (64.2A to 10.5V)
Internal resistance	Full charged at 25°C: 5.2 m Ω
Max. Discharge Current	1200A(5S)
	Discharge: -40 ~60°C(-40~ 140°F)
Operating Temperature	Charge: -20 ~50°C (-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)

Charge current: Max. 25.0A; Recom.10.0A

Charge Method (25 °C)

 $Float\ Charge: 13.5\text{-}13.8\ V, recom. 13.8\ V(\text{-}18\ m\ V/\ ^{\circ}C)$

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

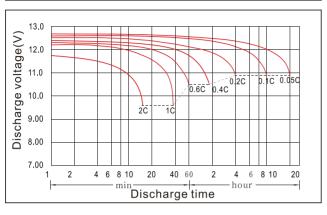
Constant	Current Di	scharge C	haracterist	ics Unit: A	4 (25°C, 7	7°F)			
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	184	112	66.0	37.8	27.5	18.4	12.1	10.3	5.43
1.65V	178	110	65.6	37.6	27.2	18.2	12.0	10.2	5.40
1.70V	174	108	65.1	37.4	26.8	18.1	11.9	10.1	5.37
1.75V	169	107	64.2	36.8	26.5	17.9	11.8	10.0	5.35
1.80V	157	102	62.5	36.1	26.3	17.4	11.7	10.0	5.32
1.85V	140	93.3	57.9	34.3	24.8	16.5	11.2	9.65	5.23
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)									
	I OVVCI DI	scharge C	maractens	sucs Uni	ı: w/ceii (25°C, // I	-)		
FV/Time	15min	30min	Tharacters	2h	3h	5h	-) 8h	10h	20h
								10h 19.9	20h 10.7
FV/Time	15min	30min	1h	2h	3h	5h	8h		
FV/Time 1.60V	15min 323	30min 202	1h 125	2h 71.5	3h 52.2	5h 35.0	8h 23.5	19.9	10.7
FV/Time 1.60V 1.65V	15min 323 318	30min 202 200	1h 125 124	2h 71.5 71.4	3h 52.2 51.6	5h 35.0 34.8	8h 23.5 23.3	19.9 19.7	10.7 10.7
FV/Time 1.60V 1.65V 1.70V	15min 323 318 314	30min 202 200 200	1h 125 124 123	2h 71.5 71.4 71.1	3h 52.2 51.6 51.3	5h 35.0 34.8 34.5	8h 23.5 23.3 23.2	19.9 19.7 19.5	10.7 10.7 10.6

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.

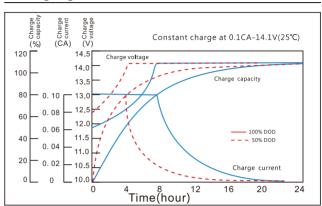


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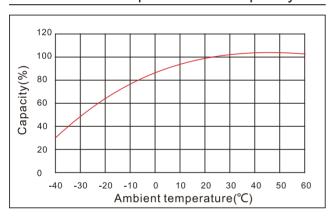
Discharge characteristic



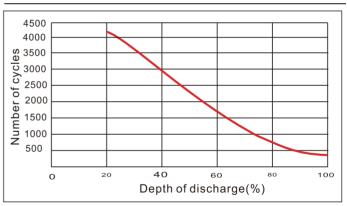
Charging characteristic



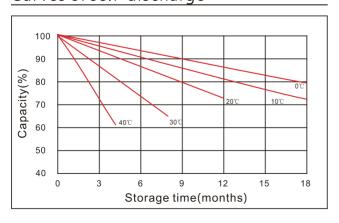
The effect of temperature on capacity



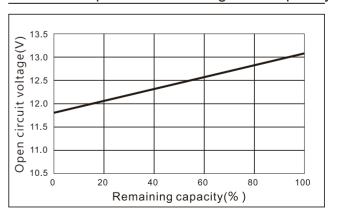
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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