

JDG12-35

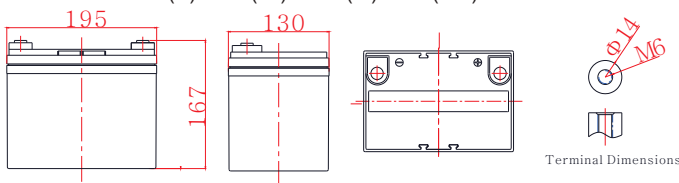


General Features

- › 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: 195(L)×130(W)×167(H)×167(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	35Ah		
Design life	12 years		
Terminal	M6		
Approx. Weight	Approx 11.5kg (25.4lbs)		
Container Material	ABS		
Rated Capacity	35.0Ah	10Hour Rate	(3.50A to 10.8V)
	27.6Ah	3Hour Rate	(9.21A to 10.8V)
	22.5Ah	1Hour Rate	(22.5A to 10.5V)
Internal resistance	Full charged at 25°C: 12.8 mΩ		
Max. Discharge Current	420A(5S)		
Operating Temperature	Discharge: -40 ~60°C(-40~ 140°F)		
	Charge: -20 ~50°C(-4~ 122°F)		
	Storage: -20 ~50°C(-4~ 122°F)		
Charge current:	Max. 8.8A ; Recom.3.5A		
Charge Method (25 °C)	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		

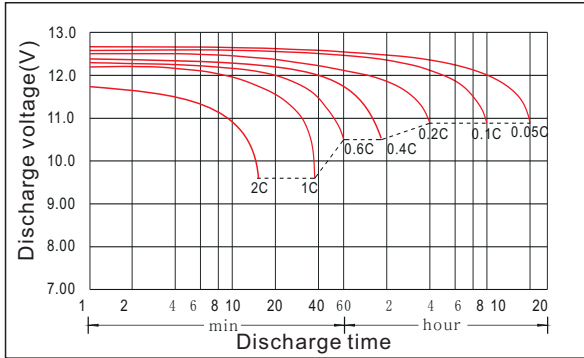
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	64.3	39.1	23.1	13.2	9.61	6.45	4.24	3.62	1.91
1.65V	62.3	38.4	23.0	13.2	9.51	6.39	4.20	3.59	1.90
1.70V	61.0	37.8	22.8	13.1	9.38	6.32	4.17	3.55	1.89
1.75V	59.0	37.4	22.5	12.9	9.28	6.25	4.13	3.52	1.88
1.80V	55.0	35.8	21.9	12.6	9.21	6.08	4.10	3.50	1.87
1.85V	49.0	32.7	20.3	12.0	8.67	5.78	3.93	3.38	1.84

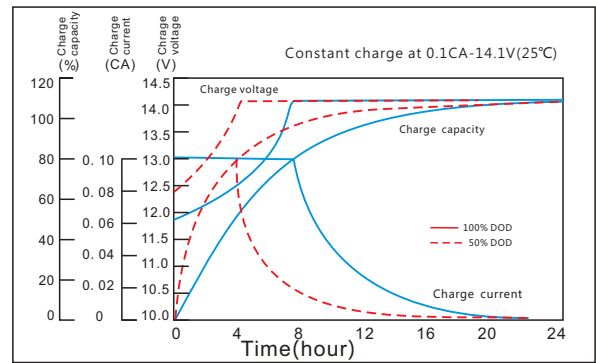
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	113	70.7	43.7	25.0	18.3	12.2	8.23	6.97	3.77
1.65V	111	70.1	43.3	25.0	18.1	12.2	8.17	6.90	3.75
1.70V	110	70.1	43.0	24.9	17.9	12.1	8.13	6.83	3.74
1.75V	109	69.7	42.7	24.7	17.8	12.0	8.07	6.76	3.72
1.80V	103	68.1	42.3	24.7	17.8	11.9	8.00	6.69	3.70
1.85V	92.3	62.4	39.3	23.6	16.9	11.3	7.73	6.58	3.67

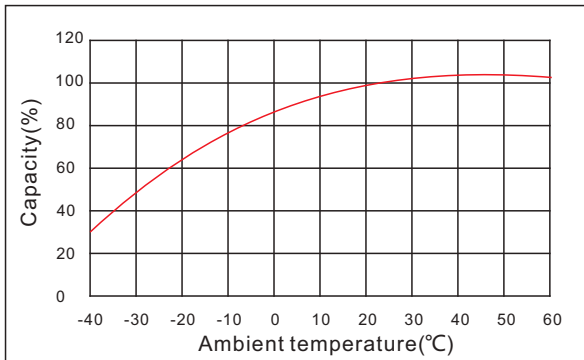
Discharge characteristic



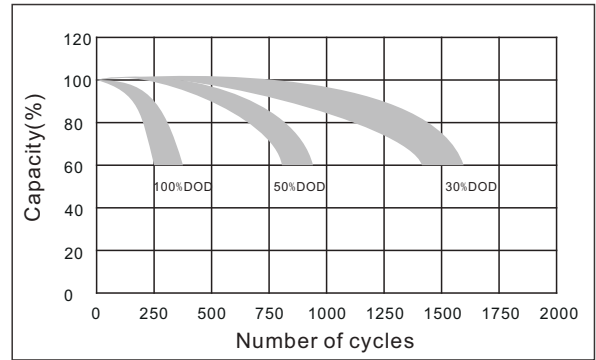
Charging characteristic



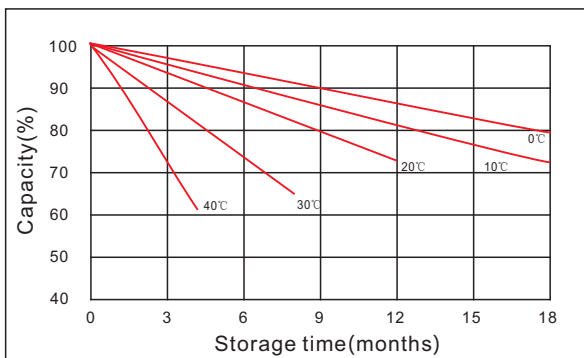
The effect of temperature on capacity



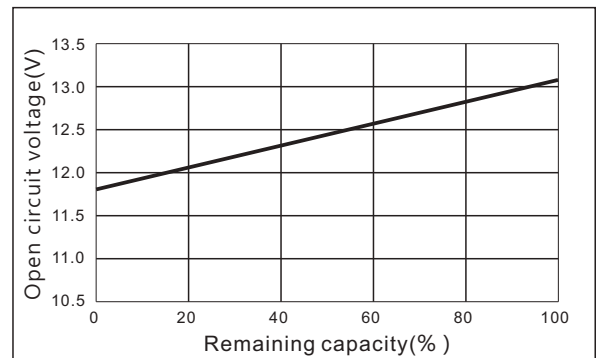
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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