

JS12-8.5



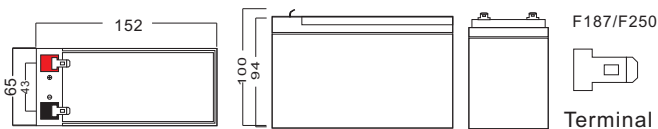
JS Series lead-acid battery

General Features

- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology



Dimension: 152(L)×65(W)×94(H)×100(TH) Unit: mm



Applications

- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting、Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

Specification

Nominal Voltage	12V
Nominal Capacity	8.5Ah
Design life	5 years
Terminal	F187/F250
Approx. Weight	Approx 2.35kg (5.18lbs)
Container Material	ABS
Rated Capacity	8.50Ah 20Hour Rate (0.425A to 10.5V)
	6.60Ah 3Hour Rate (2.20A to 10.5V)
	5.61Ah 1Hour Rate (5.61A to 9.60V)
Internal resistance	Full charged at 25°C: 20.0 mΩ
Max. Discharge Current	120A(5S)
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)
	Charge: -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
Charge current:	Max.2.00A ; Recom.0.80A
Charge Method (25 °C)	Float Charge:13.5-13.8V,recom.13.5V(-18mV/ °C)
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)
	Cycle charge:14.4-15.0V,recom.14.4V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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

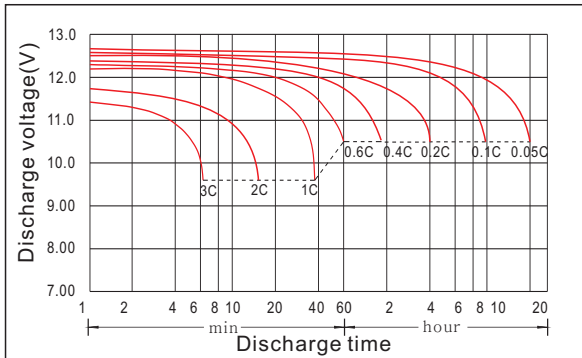
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	33.7	22.0	16.4	10.8	5.61	3.21	2.35	1.88	1.60	1.054	0.842	0.451
1.65V	33.4	21.1	15.0	10.21	5.27	3.09	2.28	1.82	1.56	1.037	0.833	0.442
1.70V	27.4	19.8	14.0	9.89	5.10	3.03	2.24	1.73	1.55	1.020	0.816	0.434
1.75V	25.4	18.9	13.1	9.66	4.92	2.95	2.20	1.70	1.48	0.995	0.799	0.425
1.80V	23.4	17.8	12.2	9.35	4.75	2.87	2.08	1.67	1.42	0.969	0.782	0.408

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

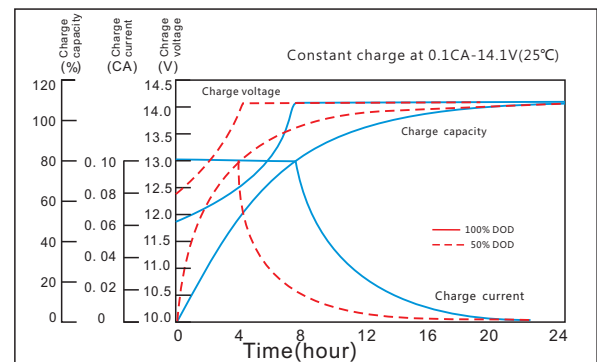
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	63.2	39.7	30.0	18.2	10.29	6.02	4.43	3.56	3.02	1.99	1.63	0.893
1.65V	58.2	37.5	28.2	18.0	9.68	5.79	4.31	3.44	2.96	1.96	1.60	0.868
1.70V	53.3	36.4	26.9	18.0	9.38	5.68	4.24	3.27	2.88	1.94	1.59	0.861
1.75V	48.3	35.3	25.9	17.8	9.11	5.55	4.18	3.23	2.82	1.86	1.55	0.843
1.80V	43.4	34.1	24.8	17.7	8.98	5.51	4.07	3.20	2.75	1.80	1.52	0.837

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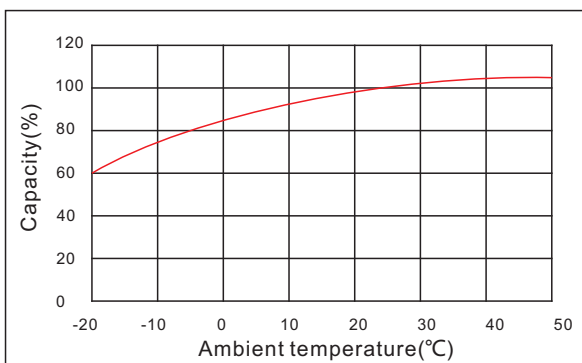
Discharge characteristic



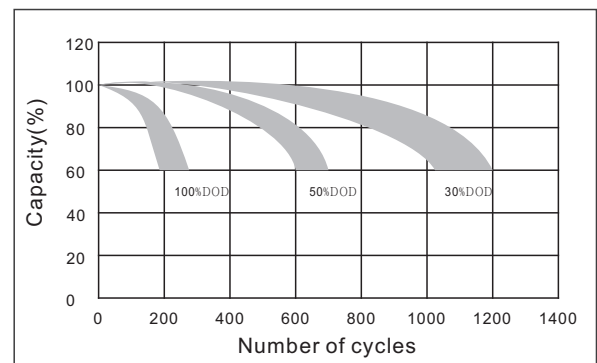
Charging characteristic



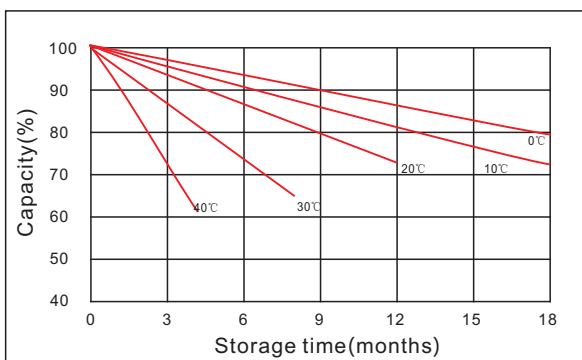
The effect of temperature on capacity



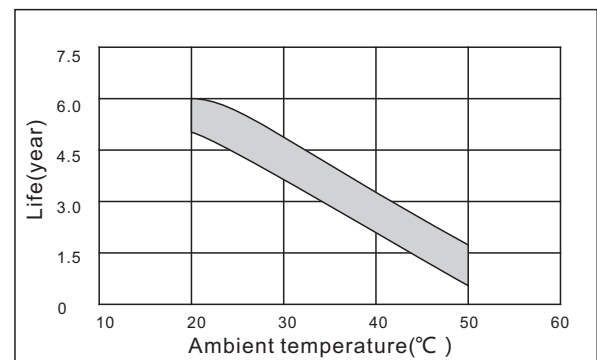
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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