

# JS12-8.0

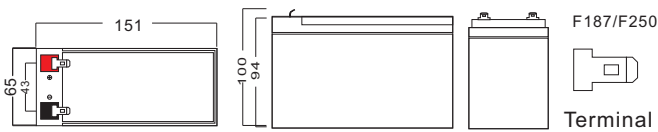


## General Features

- 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: 151(L)×65(W)×94(H)×100(TH) Unit: mm



## JS Series lead-acid battery

### 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	8.0Ah
Design life	5 years
Terminal	F187/F250
Approx. Weight	Approx 2.28kg (5.03lbs)
Container Material	ABS
Rated Capacity	8.00Ah ➔ 20Hour Rate (0.40A to 10.5V)
	6.21Ah ➔ 3Hour Rate (2.07A to 10.5V)
	5.28Ah ➔ 1Hour Rate (5.28A 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.13.8V(-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)

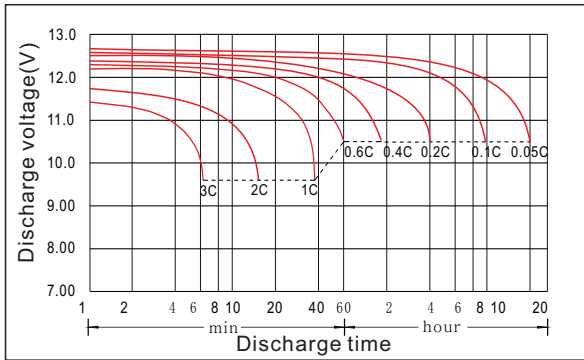
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	31.7	20.7	15.4	10.1	5.28	3.02	2.21	1.77	1.50	0.992	0.792	0.424
1.65V	31.4	19.8	14.2	9.61	4.96	2.90	2.14	1.71	1.47	0.976	0.784	0.416
1.70V	25.8	18.6	13.2	9.31	4.80	2.85	2.10	1.62	1.46	0.960	0.768	0.408
1.75V	23.9	17.8	12.3	9.10	4.63	2.78	2.07	1.60	1.39	0.936	0.752	0.400
1.80V	22.0	16.7	11.4	8.80	4.47	2.70	1.96	1.57	1.34	0.912	0.736	0.384

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

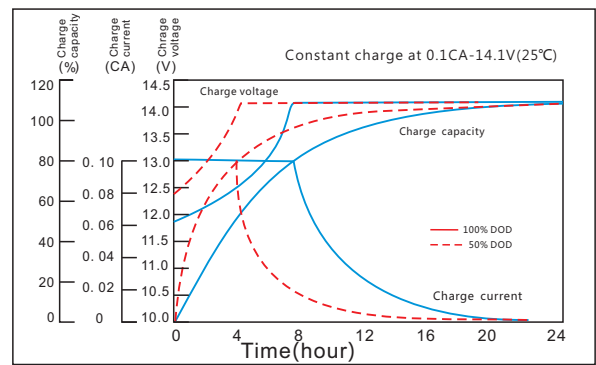
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	59.5	37.3	28.3	17.1	9.68	5.67	4.17	3.35	2.84	1.87	1.53	0.840
1.65V	54.8	35.3	26.5	17.0	9.11	5.45	4.05	3.24	2.79	1.84	1.51	0.817
1.70V	50.1	34.3	25.3	16.9	8.83	5.35	3.99	3.08	2.71	1.83	1.49	0.811
1.75V	45.5	33.2	24.4	16.7	8.57	5.23	3.93	3.04	2.65	1.75	1.46	0.793
1.80V	40.8	32.1	23.3	16.6	8.45	5.19	3.83	3.01	2.59	1.69	1.43	0.788

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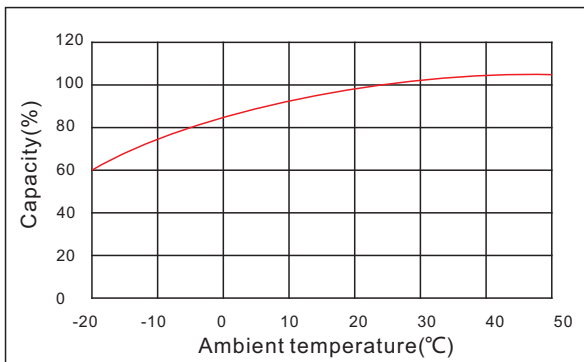
**Discharge characteristic**



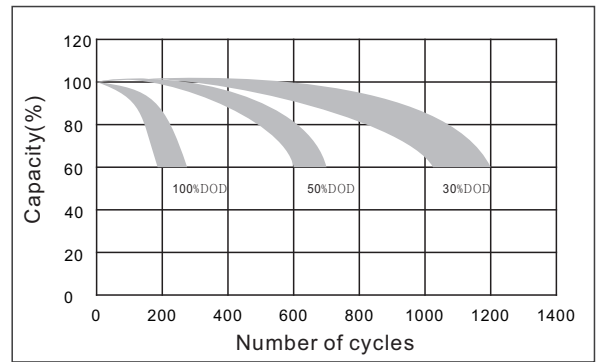
**Charging characteristic**



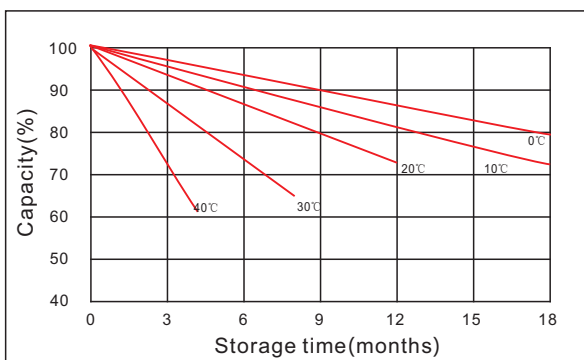
**The effect of temperature on capacity**



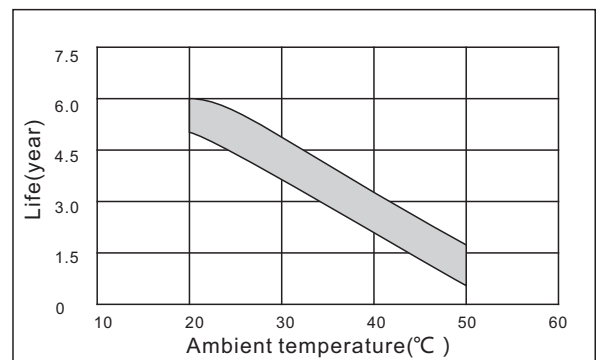
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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