

# JS12-6.4

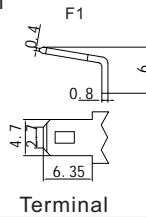
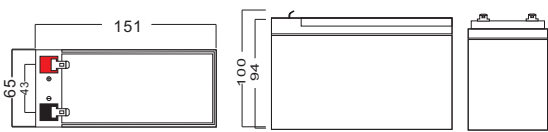


## General Features

- 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



Terminal

# 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	6.4Ah
Design life	5 years
Terminal	F1/F2/F3
Approx. Weight	Approx 1.86kg (4.10lbs)
Container Material	ABS
Rated Capacity	6.40Ah → 20Hour Rate (0.32A to 10.5V)
	4.74Ah → 3Hour Rate (1.58A to 10.2V)
	3.89Ah → 1Hour Rate (3.89A to 9.60V)
Internal resistance	Full charged at 25°C: 53.0 mΩ
Max. Discharge Current	77A(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.1.60A ; Recom.0.64A
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)

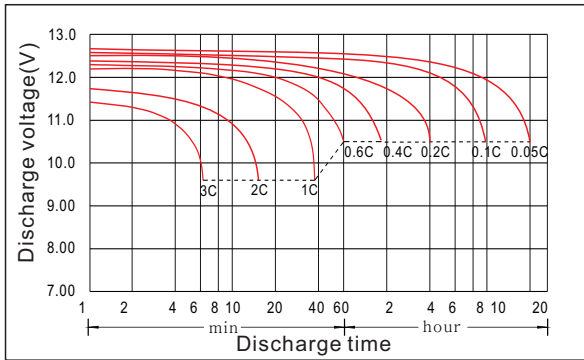
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	22.8	14.8	11.3	7.45	4.77	3.89	2.63	2.27	1.66	1.39	1.18	0.931	0.776	0.646	0.340
1.65V	22.6	14.3	10.8	7.08	4.53	3.69	2.60	2.21	1.62	1.37	1.17	0.921	0.768	0.639	0.333
1.70V	18.5	13.4	10.4	6.85	4.38	3.57	2.55	2.17	1.58	1.35	1.15	0.902	0.752	0.626	0.327
1.75V	17.1	12.7	10.2	6.69	4.28	3.49	2.49	2.12	1.55	1.32	1.12	0.884	0.736	0.613	0.320
1.80V	15.8	12.0	9.90	6.48	4.15	3.38	2.44	2.02	1.47	1.29	1.10	0.865	0.721	0.600	0.307
1.85V	14.1	11.1	8.80	5.94	3.84	3.13	2.37	1.92	1.38	1.25	1.05	0.839	0.691	0.582	0.302

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

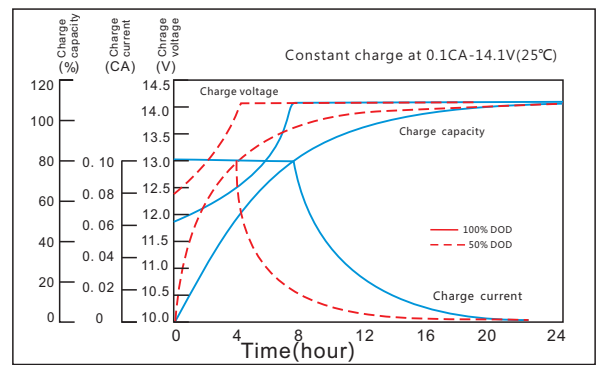
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	42.7	26.8	20.6	13.8	8.56	7.13	5.28	4.26	3.13	2.62	2.22	1.83	1.46	1.25	0.673
1.65V	39.4	25.4	20.0	13.3	8.12	6.77	5.19	4.14	3.05	2.62	2.21	1.80	1.45	1.23	0.654
1.70V	36.0	24.6	19.4	12.9	7.88	6.57	5.15	4.07	2.99	2.55	2.14	1.79	1.44	1.22	0.651
1.75V	32.7	23.8	19.2	12.7	7.75	6.46	5.02	3.99	2.95	2.50	2.13	1.75	1.37	1.19	0.634
1.80V	29.3	23.1	18.7	12.4	7.67	6.39	4.90	3.87	2.87	2.47	2.12	1.70	1.33	1.16	0.631
1.85V	26.2	21.6	16.7	11.4	7.17	5.97	4.82	3.70	2.73	2.43	2.02	1.67	1.27	1.14	0.625

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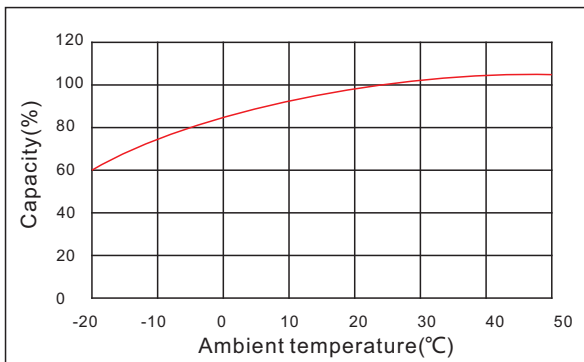
**Discharge characteristic**



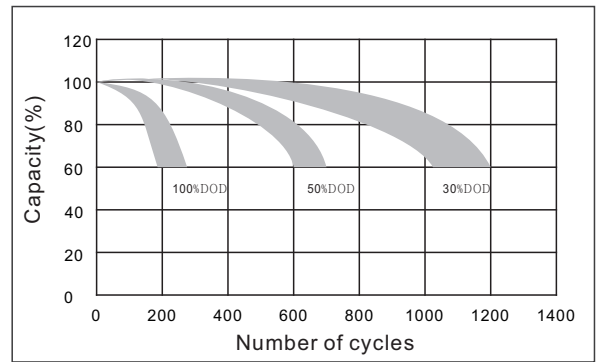
**Charging characteristic**



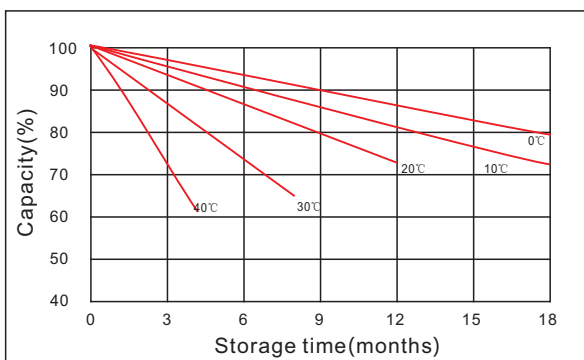
**The effect of temperature on capacity**



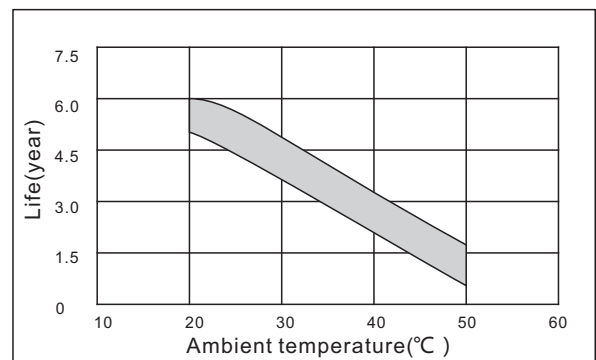
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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