

# JS12-5.0

## JS Series lead-acid battery

Executive standard GB/T 19639.1-2014



### Applications

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

### 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

### Specification

Nominal Voltage	12V
Nominal Capacity	5.0Ah
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx 1.55kg (3.42lbs)
Container Material	ABS

Rated Capacity	5.00Ah	20Hour Rate (0.25A to 10.5V)
	3.81Ah	3Hour Rate (1.27A to 10.2V)
	3.49Ah	1Hour Rate (3.49A to 9.60V)

Internal resistance	Full charged at 25°C: 36.0 mΩ
Max. Discharge Current	60A(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.1.25A ; Recom.0.50A

Float Charge:13.5-13.8V,recom.13.8V(-18mV/ °C)

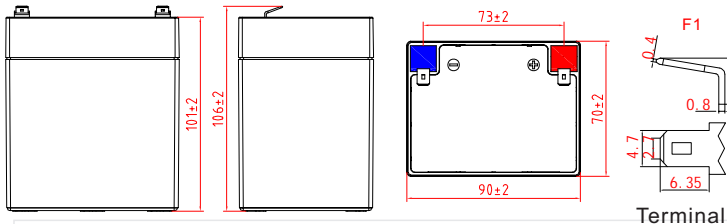
Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)

Cycle charge:14.4-15.0V,recom.14.7V(-30mV/ °C)

Self discharge 3% of capacity declined per month at 25°C



Dimension: 90(L)×70(W)×101(H)×106(TH) Unit: mm



Charge Method (25 °C)

Terminal

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

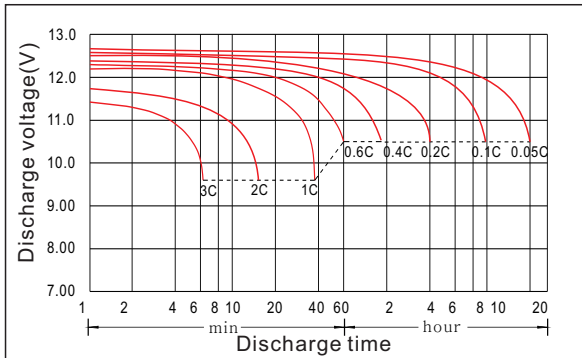
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	21.0	15.1	11.8	6.67	4.59	3.49	2.79	1.89	1.33	1.10	0.940	0.715	0.621	0.512	0.265
1.65V	19.1	13.9	11.0	6.33	4.37	3.32	2.67	1.81	1.29	1.07	0.921	0.706	0.610	0.505	0.260
1.70V	18.3	13.4	10.7	6.18	4.28	3.25	2.62	1.78	1.27	1.01	0.910	0.692	0.600	0.494	0.254
1.75V	16.9	12.5	10.1	5.92	4.16	3.16	2.54	1.74	1.25	1.00	0.871	0.679	0.585	0.486	0.250
1.80V	15.5	11.7	9.62	5.66	3.98	3.03	2.46	1.69	1.18	0.979	0.835	0.665	0.571	0.475	0.240
1.85V	13.3	9.93	8.24	5.01	3.60	2.73	2.25	1.61	1.11	0.950	0.798	0.644	0.527	0.456	0.235

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

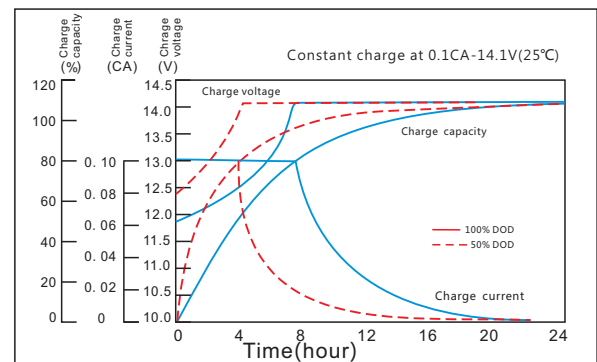
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	37.9	27.3	21.6	12.4	8.63	6.56	5.29	3.54	2.51	2.08	1.77	1.36	1.17	0.989	0.525
1.65V	34.7	25.5	20.4	11.9	8.25	6.30	5.10	3.42	2.45	2.02	1.74	1.34	1.15	0.971	0.510
1.70V	33.6	24.7	20.0	11.6	8.09	6.20	5.02	3.33	2.41	1.92	1.69	1.31	1.14	0.963	0.506
1.75V	31.4	23.6	19.1	11.2	7.90	6.04	4.90	3.27	2.37	1.90	1.66	1.29	1.10	0.941	0.496
1.80V	29.2	22.4	18.3	10.8	7.58	5.85	4.77	3.25	2.31	1.88	1.62	1.26	1.08	0.922	0.492
1.85V	25.3	19.0	15.8	9.68	6.97	5.30	4.37	3.11	2.17	1.86	1.57	1.23	1.05	0.907	0.487

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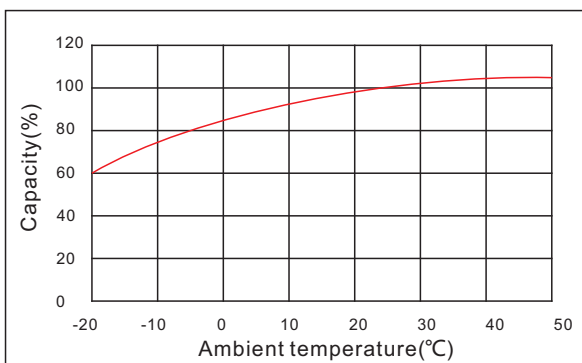
Discharge characteristic



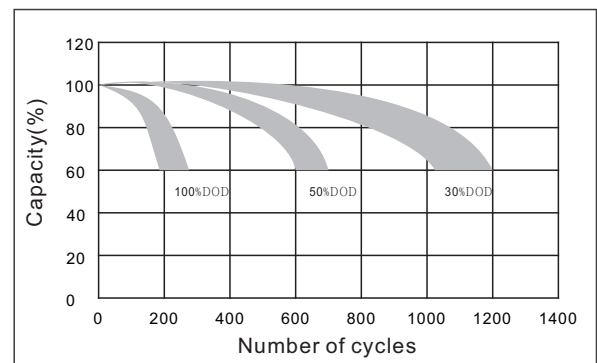
Charging characteristic



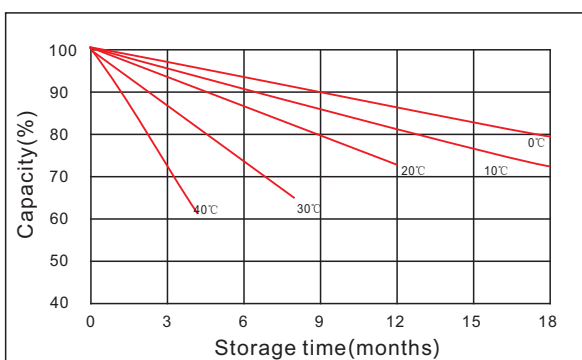
The effect of temperature on capacity



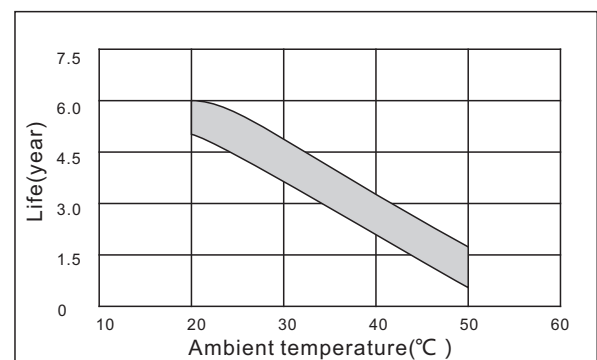
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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