

# JS12-9.0



## 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

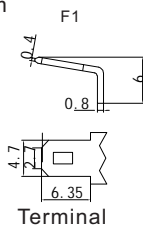
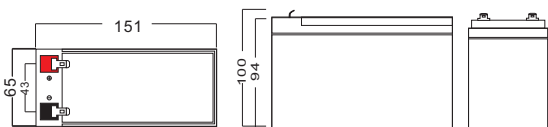
- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance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

### Specification

Nominal Voltage	12V
Nominal Capacity	9.0Ah
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx 2.45kg (5.40lbs)
Container Material	ABS
Rated Capacity	<b>9.00Ah</b> 20Hour Rate (0.45A to 10.5V)
	<b>6.87Ah</b> 3Hour Rate (2.29A to 10.2V)
	<b>6.28Ah</b> 1Hour Rate (6.28A to 9.60V)
Internal resistance	Full charged at 25°C: 18.0 mΩ
Max. Discharge Current	135A(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. 2.25A ; Recom.0.90A
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



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



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

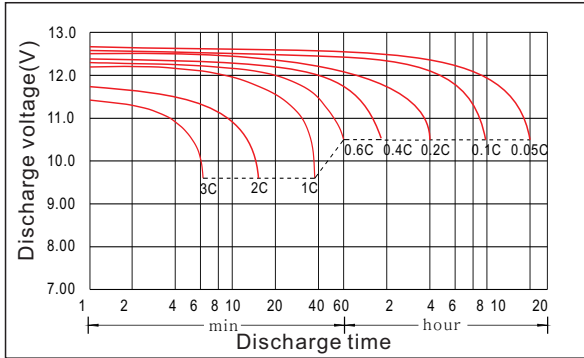
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	42.4	27.0	21.2	12.0	8.26	6.28	5.02	3.40	2.39	1.98	1.69	1.29	1.12	0.916	0.477
1.65V	38.6	24.9	19.8	11.4	7.87	5.98	4.81	3.26	2.32	1.93	1.66	1.27	1.10	0.904	0.468
1.70V	37.0	24.0	19.3	11.1	7.70	5.85	4.72	3.20	2.29	1.82	1.64	1.25	1.08	0.884	0.457
1.75V	34.2	22.4	18.2	10.7	7.49	5.69	4.57	3.13	2.25	1.80	1.57	1.22	1.05	0.870	0.450
1.80V	31.3	20.9	17.3	10.2	7.16	5.45	4.43	3.04	2.12	1.76	1.50	1.20	1.03	0.850	0.432
1.85V	26.9	17.8	14.8	9.02	6.48	4.91	4.05	2.90	2.00	1.71	1.44	1.16	0.949	0.816	0.423

### 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	76.6	48.8	38.9	22.3	15.5	11.8	9.52	6.37	4.52	3.74	3.19	2.45	2.11	1.77	0.945
1.65V	70.1	45.6	36.7	21.4	14.9	11.3	9.18	6.16	4.41	3.64	3.13	2.41	2.07	1.74	0.918
1.70V	67.9	44.2	36.0	20.9	14.6	11.2	9.04	5.99	4.34	3.46	3.04	2.36	2.05	1.72	0.911
1.75V	63.5	42.2	34.4	20.2	14.2	10.9	8.82	5.89	4.27	3.42	2.99	2.32	1.98	1.68	0.893
1.80V	59.0	40.1	32.9	19.4	13.6	10.5	8.59	5.85	4.16	3.38	2.92	2.27	1.94	1.65	0.886
1.85V	51.1	34.0	28.4	17.4	12.5	9.54	7.87	5.60	3.91	3.35	2.83	2.21	1.89	1.62	0.877

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**Discharge characteristic**



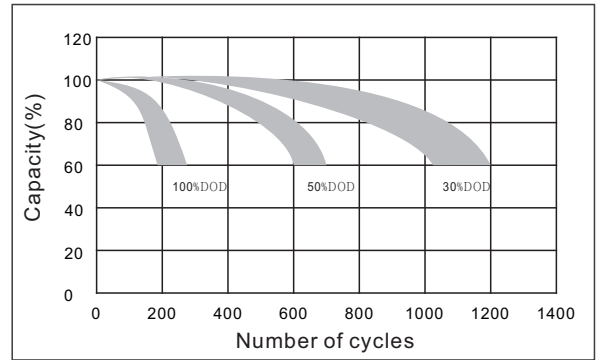
**Charging characteristic**



**The effect of temperature on capacity**



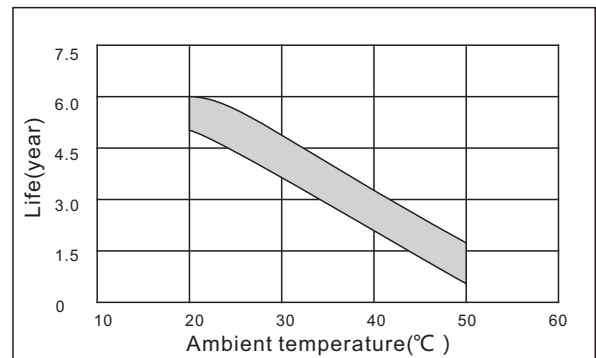
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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