



JH Series High-Rate Battery JH12-51W

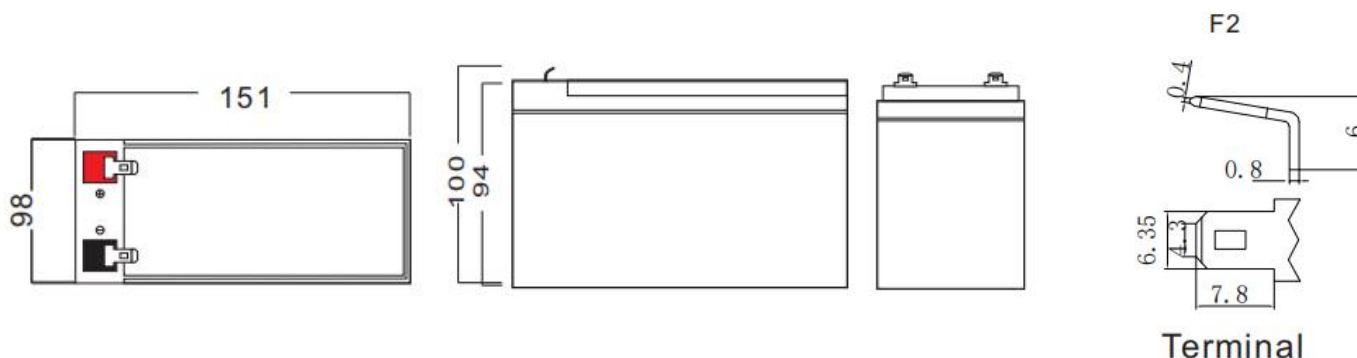
General Features

- ▶ 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
- ▶ Long life



Dimension: 151(L)×98(W)×94(H)×100(TH)/(±3)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	51W@15min-rate to 1.67V percell @25°C
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx3.70kg±3% (8.16lbs ±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	666A
Internal resistance(Full charged at 25°C:)	18.0 mΩ
Self discharge	3% of capacity declined per month at 25°C

Operating Temperature

Discharge:	-20 ~50°C(-4~ 122°F)
Charge :	-20 ~50°C(-4~ 122°F)
Storage:	-20 ~50°C(-4~ 122°F)

Charge Method (2 5 ° C)

Charge current:	Max. 3.5A;Recom.1.5A
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)

Standards

Executive standard: IEC 60896-21/22,
GB/T 19638.1-2014, YD/T 3427-2018

Applications

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

Rated Capacity

20Hour Rate (0.700A to 10.5V)	14.0Ah
3Hour Rate (3.72A to 10.2V)	11.16Ah
1Hour Rate (10.20A to 9.6V)	10.20Ah

Attain Certificate

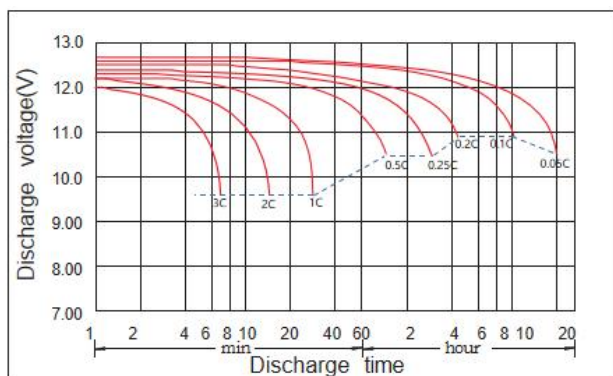


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

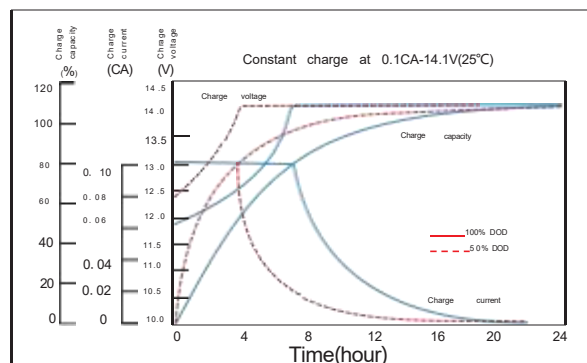


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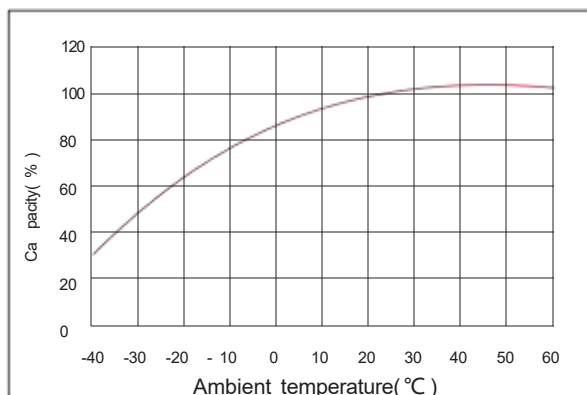
Discharge characteristic



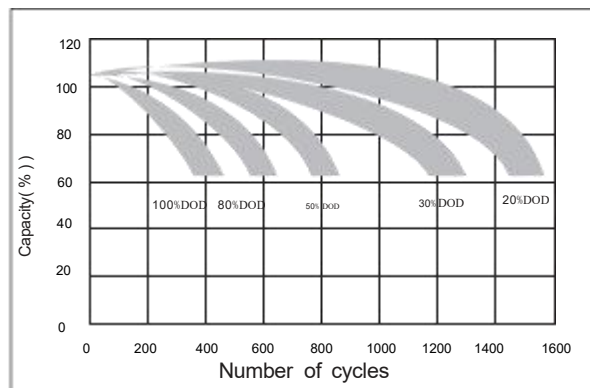
Charging characteristic



The effect of temperature on capacity



The effect of discharge depth on cycle life



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

FV/Time	2min	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	82.4	54.4	43.4	31.5	17.8	12.3	10.2	7.25	5.35	3.9	3.12	2.55	2.11	1.72	1.4	0.75
1.65V	80.5	52.3	38.3	29.4	16.9	11.7	9.5	6.94	5.14	3.79	2.93	2.47	2.07	1.68	1.39	0.73
1.70V	79.6	51.8	36	28.5	16.5	11.3	9.3	6.68	5.03	3.72	2.87	2.41	2.02	1.61	1.36	0.72
1.75V	77.2	51.3	32.7	26.9	15.8	11	9	6.55	4.95	3.67	2.83	2.35	1.99	1.58	1.33	0.7
1.80V	50	42.3	29.5	25.6	15.1	10.6	8.7	6.36	4.78	3.46	2.77	2.3	1.9	1.53	1.3	0.68

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

FV/Time	2min	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	165	108.5	66.1	54	30.6	21	17.4	12.5	9.33	6.72	5.39	4.48	3.62	3.01	2.47	1.35
1.65V	161	104.6	60.9	51	29.4	20.4	16.7	12.1	8.99	6.55	5.22	4.26	3.67	2.97	2.42	1.32
1.70V	159.2	103.6	58	50	28.7	19.8	16.2	11.4	8.58	6.43	4.96	4.18	3.53	2.89	2.41	1.3
1.75V	154.4	102	54.2	47.6	27.8	19.4	16	11.2	8.46	6.2	4.89	4.14	3.44	2.82	2.35	1.28
1.80V	100	84.6	52.1	45.5	26.9	18.7	15.2	11	8.35	6.14	4.85	4.07	3.37	2.72	2.3	1.27