



JH Series High-Rate Battery JH12-24W

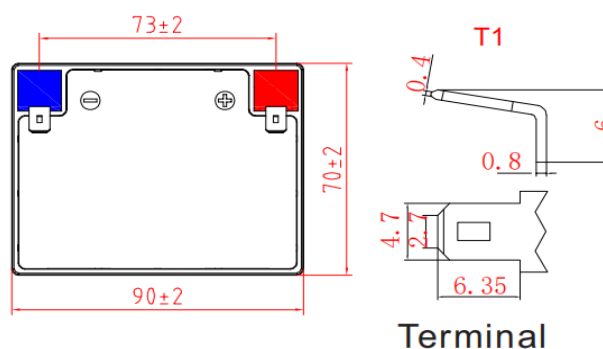
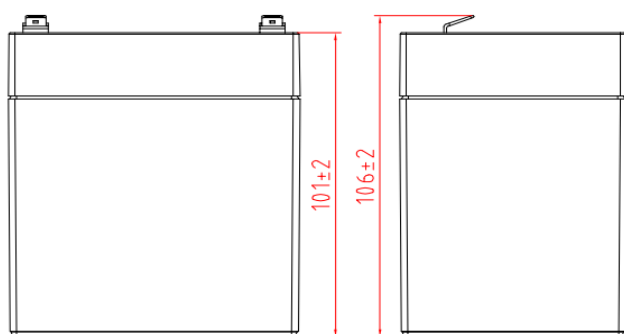
General Features

- ▶ 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: 90(L) × 70(W) × 101(H) × 106(TH) / (±3)

Unit: mm



Terminal

Specification

Nominal Voltage	12V
Nominal Capacity	24W@ 15min-rate to 1.67V per cell @25°C
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx 1.68kg ± 3% (3.70lbs ± 3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	522A
Internal resistance(Full charged at 25°C:)	23.0 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. 1.38A; Recom. 0.55A
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 (0.275A to 10.5V)	5.50Ah
3Hour Rate (1.46A to 10.2V)	4.38Ah
1Hour Rate (4.00A to 9.6V)	4.00Ah

Attain Certificate

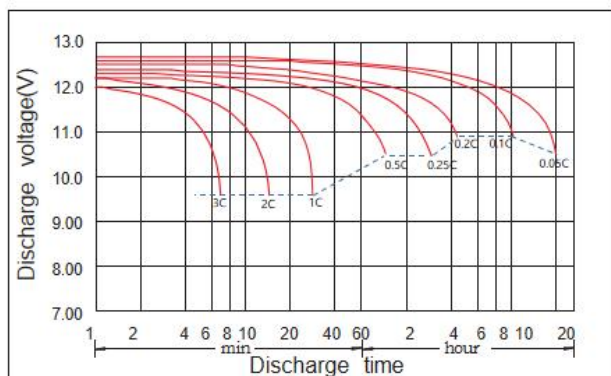


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

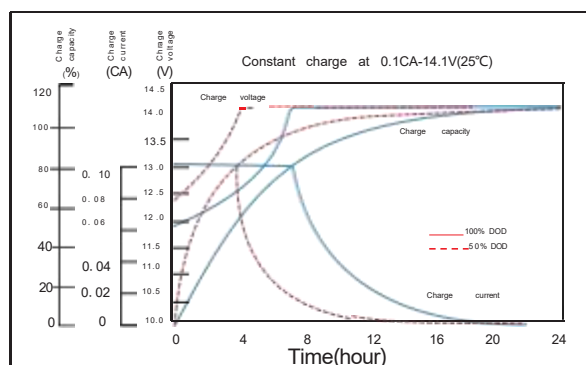


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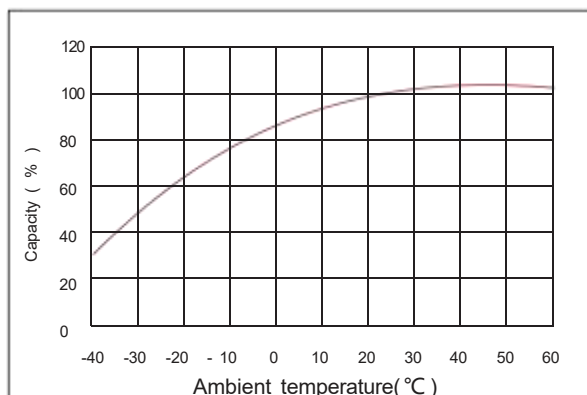
Discharge characteristic



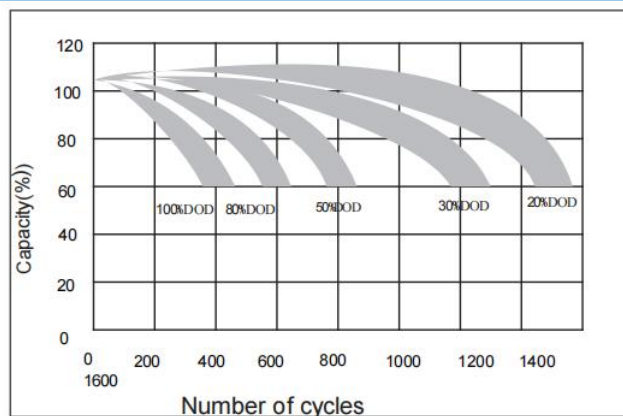
Charging characteristic



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	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	21.8	17.8	12.8	7.13	4.88	4.00	2.85	2.10	1.53	1.23	1.00	0.83	0.68	0.55	0.295
1.65V	19.1	15.7	11.9	6.78	4.65	3.75	2.73	2.02	1.49	1.15	0.97	0.81	0.66	0.55	0.288
1.70V	17.8	14.8	11.6	6.60	4.50	3.65	2.63	1.98	1.46	1.13	0.95	0.80	0.63	0.53	0.283
1.75V	16.0	13.4	10.9	6.33	4.37	3.55	2.58	1.95	1.44	1.11	0.93	0.78	0.62	0.52	0.275
1.80V	14.2	12.1	10.4	6.05	4.20	3.43	2.50	1.88	1.36	1.09	0.91	0.75	0.60	0.51	0.268
1.85V	12.5	10.8	8.88	5.35	3.83	3.08	2.26	1.79	1.30	1.02	0.85	0.73	0.57	0.47	0.258

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	38.9	31.1	25.4	14.4	9.87	8.18	5.86	4.39	3.16	2.54	2.11	1.70	1.42	1.16	0.64
1.65V	34.9	28.6	24.0	13.9	9.60	7.88	5.67	4.23	3.08	2.45	2.01	1.73	1.40	1.14	0.62
1.70V	32.7	27.3	23.5	13.5	9.32	7.63	5.37	4.04	3.03	2.33	1.97	1.66	1.36	1.13	0.61
1.75V	30.5	25.5	22.4	13.1	9.13	7.53	5.29	3.98	2.92	2.30	1.95	1.62	1.33	1.10	0.60
1.80V	27.8	24.5	21.4	12.7	8.79	7.17	5.19	3.93	2.89	2.28	1.91	1.59	1.28	1.08	0.60
1.85V	25.2	21.9	18.6	11.3	8.10	6.65	4.85	3.79	2.81	2.21	1.86	1.55	1.24	1.05	0.58