



JH Series High-Rate Battery JH12-102W

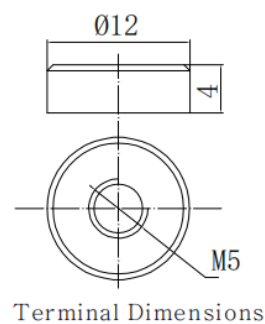
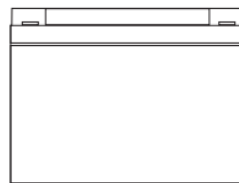
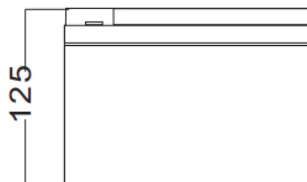
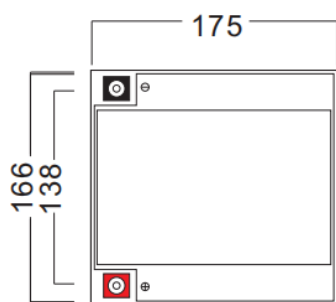
General Features

- ▶ 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: 175(L) × 166(W) × 125(H) × 125(TH) / (±3)

Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V
Nominal Capacity	10.2W@ 1.5 min- rate to 1.67V per cell@ 25°C
Design life	5 years
Terminal	M5
Approx. Weight	Approx. 8.55kg ± 3% (18.85lbs ± 3%)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
short-circuit current	1142A
Internal resistance (Full charged at 25°C:)	10.5 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 (25°C)

Charge current:	Max. 7.0A; Recom. 2.8A
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 (1.40A to 10.5V)	28.0Ah
3Hour Rate (7.45A to 10.2V)	22.35Ah
1Hour Rate (20.4A to 9.6V)	20.4Ah

Attain Certificate

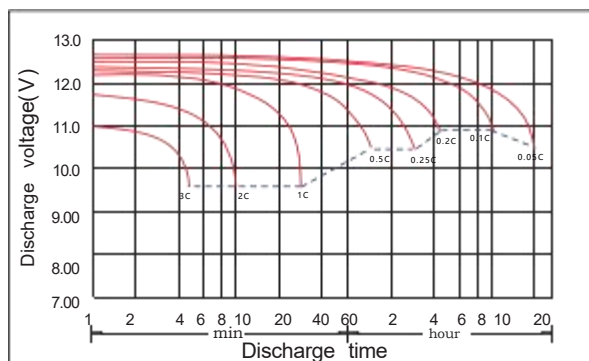


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

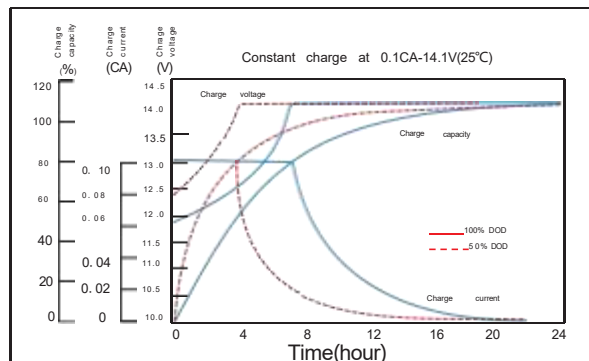


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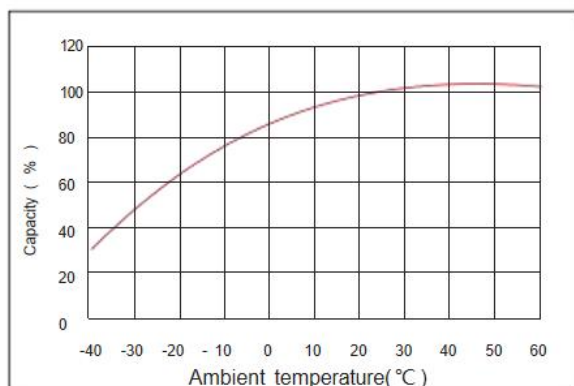
Discharge characteristic



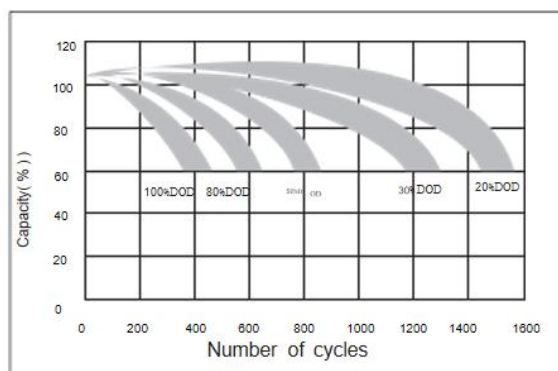
Charging characteristic



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	105.2	86.7	63.0	35.5	24.6	20.4	14.5	10.7	7.80	6.25	5.09	4.23	3.44	2.80	1.50
1.67V	92.4	76.6	58.9	33.8	23.4	19.1	13.9	10.3	7.59	5.87	4.94	4.14	3.36	2.77	1.46
1.70V	86.2	72.1	57.0	32.9	22.7	18.6	13.4	10.1	7.45	5.74	4.81	4.05	3.22	2.71	1.44
1.75V	77.1	65.4	53.8	31.6	22.0	18.1	13.1	9.90	7.33	5.65	4.71	3.98	3.17	2.66	1.40
1.80V	68.6	59.0	51.1	30.2	21.2	17.4	12.7	9.56	6.92	5.54	4.61	3.81	3.07	2.60	1.36
1.85V	60.5	52.9	43.8	26.7	19.3	15.7	11.5	9.11	6.61	5.19	4.30	3.72	2.91	2.39	1.31

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	165.1	132.1	107.9	61.2	41.9	34.8	24.9	18.7	13.4	10.8	8.96	7.24	6.03	4.94	2.70
1.67V	148.4	121.7	102.0	58.9	40.8	33.5	24.1	18.0	13.1	10.4	8.52	7.34	5.93	4.85	2.63
1.70V	138.8	115.9	99.9	57.5	39.6	32.4	22.8	17.2	12.9	9.91	8.36	7.06	5.77	4.81	2.61
1.75V	129.8	108.5	95.2	55.6	38.8	32.0	22.5	16.9	12.4	9.78	8.29	6.89	5.63	4.69	2.55
1.80V	118.2	104.3	91.0	53.9	37.4	30.5	22.0	16.7	12.3	9.70	8.14	6.75	5.45	4.60	2.54
1.85V	107.1	93.0	79.1	47.9	34.4	28.3	20.6	16.1	11.9	9.38	7.92	6.60	5.26	4.45	2.46