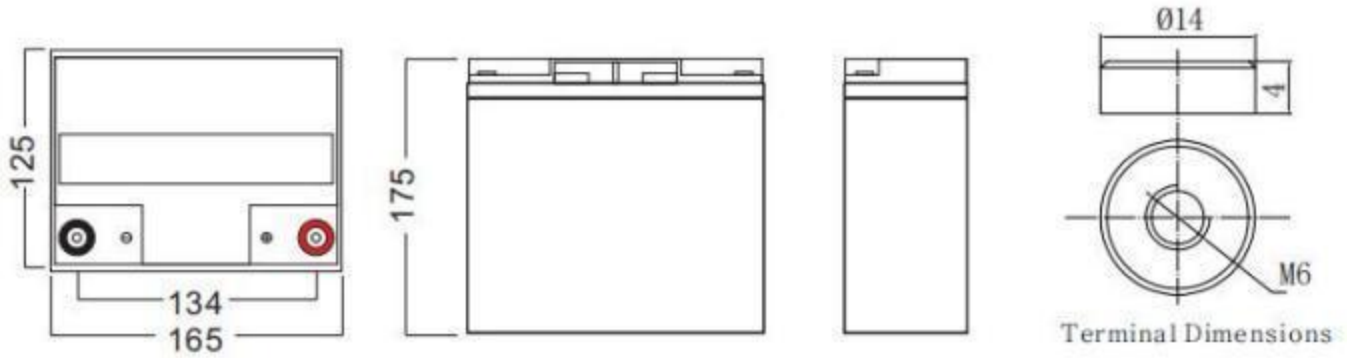
JH Series High-Rate Battery JH12-110W

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:165(L) ×125(W) × 175(H) ×175(TH) **Unit: mm**



Specification	
Nominal Voltage	12V
Nominal Capacity	1 10W@ 1 5 min- rate to 1.6 7V percell@ 2 5 ℃
Design life	10 years
Terminal	M6
Approx. Weight	Approx8.80kg±3% (19.4lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	1090A
Internal resistance(Full charged at 25°C:)	11.0 mΩ
Self discharge	3% of capacity declined per month at 25°C
Operating Temperature	
Discharge:	-20 ~50℃(-4~ 122°F)
Charge :	-20 ~50℃(-4~ 122°F)
Storage:	-20 ~50℃(-4~ 122°F)
Charge Method(2 5 ° C)	
Charge current:	Max.7.00A;Recom.2.80A
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

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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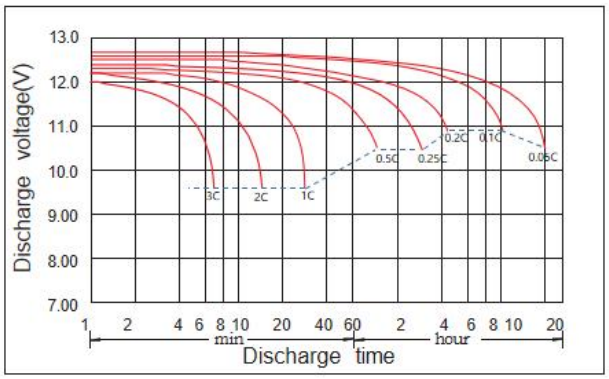
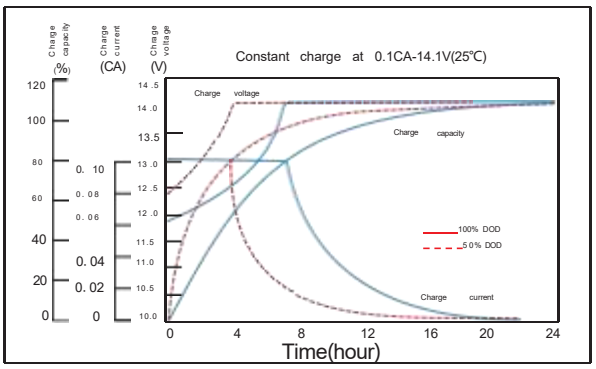
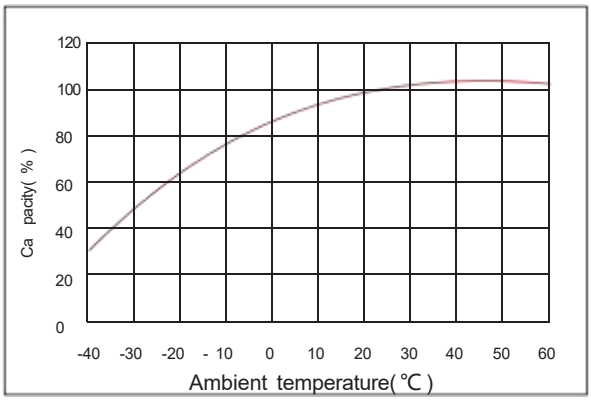
Discharge characteristic



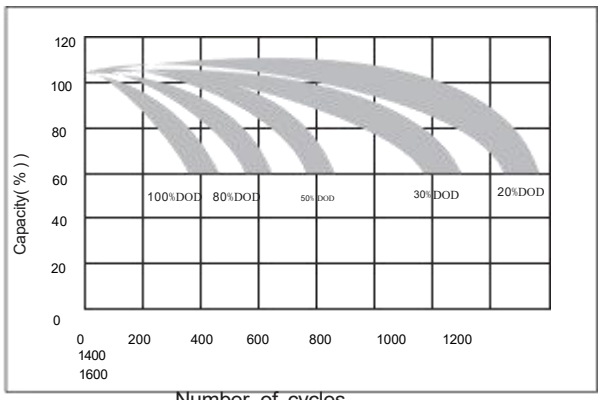
Charging characteristic



The effect of temperature on capacity



The effect of discharge depth on cycle life



Constant Current Discharge Characteristics Unit: A (2 5 ℃ , 7 7 ℉)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	106.3	87.7	63.6	35.7	24.7	20.4	14.5	10.7	7.80	6.25	5.09	4.23	3.44	2.80	1.50
1 67V	93.3	77.4	59.5	34.0	23.5	19.1	13.9	10.3	7.59	5.87	4.94	4.14	3.36	2.77	1.46
1.70V	87.1	72.8	57.6	33.1	22.8	18.6	13.4	10.1	7.45	5.74	4.81	4.05	3.22	2.71	1.44
1.75V	78.0	66.0	54.4	31.7	22.2	18.1	13.1	9.90	7.33	5.65	4.71	3.98	3.17	2.66	1.40
1 80V	69.3	59.6	51.6	30.3	21.3	17.4	12.7	9.56	6.92	5.54	4.61	3.81	3.07	2.60	1.36
1.85V	61.1	53.5	44.3	26.8	19.4	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 (2 5 ℃ , 7 7 ℉)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	178.1	142.5	116.4	66.0	45.2	37.5	26.9	20.1	14.50	11.63	9.67	7.81	6.50	5.33	2.91
1.67V	160.0	131.3	110.0	63.5	44.0	36.1	26.0	19.4	14.13	11.25	9.19	7.92	6.40	5.23	2.84
1.70V	149.7	125.0	107.8	62.0	42.7	35.0	24.6	18.5	13.88	10.69	9.01	7.61	6.23	5.19	2.81
1 75V	140.0	117.0	102.6	60.0	41.9	34.5	24.3	18.25	13.38	10.55	8.94	7.43	6.08	5.06	2.75
1 80V	127.5	112.4	98.1	58.1	40.3	32.9	23.8	18.00	13.25	10.46	8.78	7.28	5.88	4.96	2.74
1 85V	115.5	100.3	85.3	51.6	37.1	30.5	22.3	17.38	12.88	10.11	8.54	7.11	5.68	4.80	2.65

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