



# JH Series High-Rate battery JH12-110W

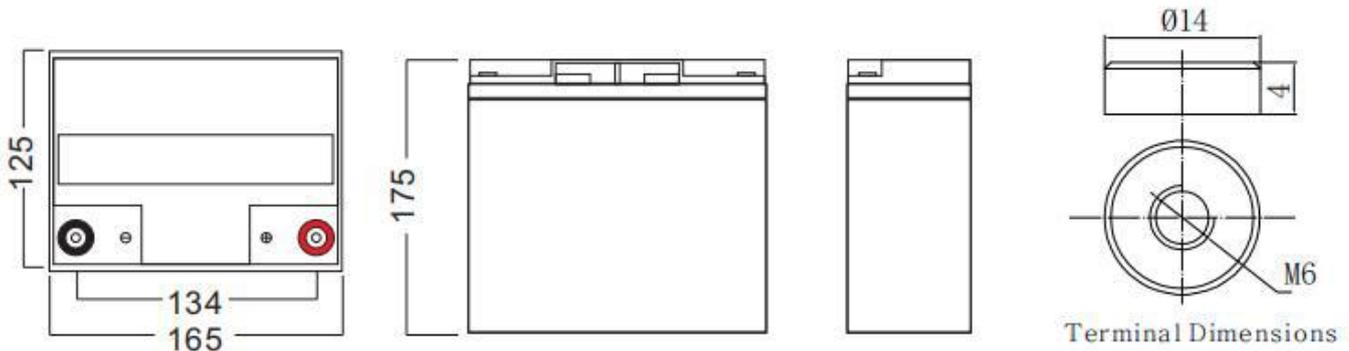
## General Features

- ▶ 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	24Ah(110W@15min-rate to 1.67V percell@25°C)
Design life	5 years
Terminal	M6
Approx. Weight	Approx 8.90kg (19.6lbs)
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°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. 6.00A; Recom. 2.40A
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 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

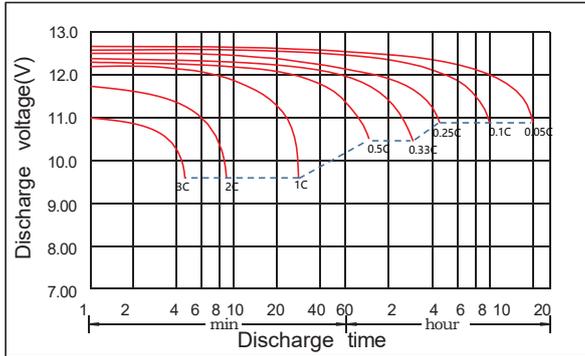
20Hour Rate (1.20A to 10.5V)	24.0Ah
3Hour Rate (6.31A to 10.2V)	18.93Ah
1Hour Rate (16.4A to 9.6V)	16.4Ah

## Attain Certificate

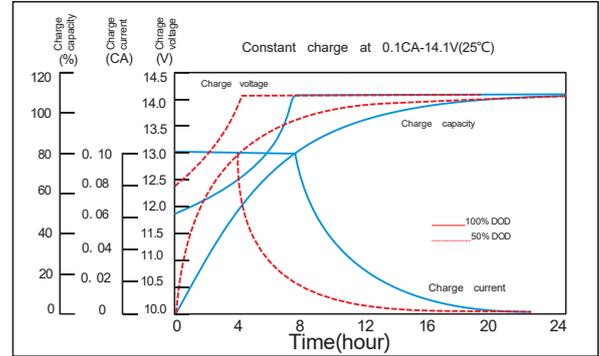


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

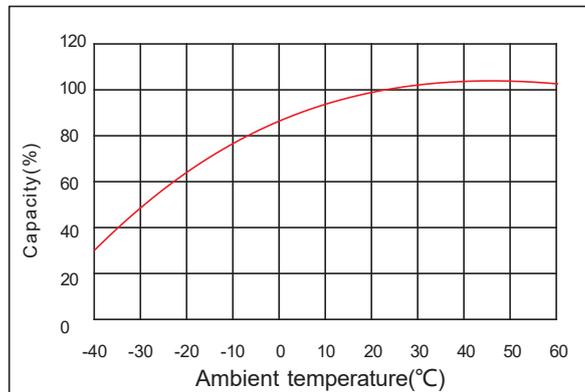
## Discharge characteristic



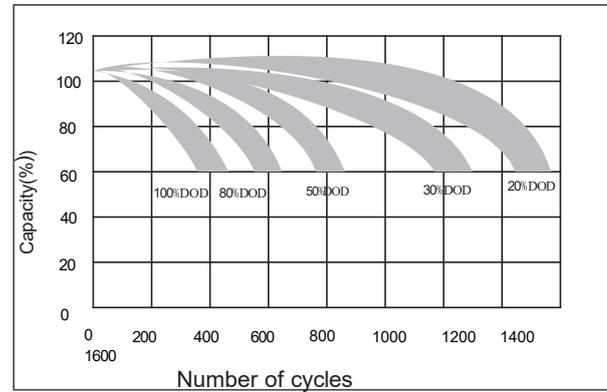
## Charging characteristic



## 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	102	81.9	59.4	29.2	20.1	16.4	13.1	9.07	6.62	5.30	4.51	3.43	2.98	2.38	1.27
1.67V	89.8	72.3	56.4	28.2	19.7	16.1	12.6	8.71	6.43	5.14	4.42	3.39	2.93	2.35	1.25
1.70V	83.8	68.0	55.8	27.7	19.4	15.8	12.4	8.54	6.31	4.87	4.37	3.32	2.88	2.30	1.22
1.75V	75.0	61.7	55.2	26.7	18.9	15.4	12.1	8.33	6.22	4.80	4.18	3.26	2.81	2.26	1.20
1.80V	66.7	55.7	50.5	25.6	18.4	15.0	11.9	8.11	5.88	4.70	4.01	3.19	2.74	2.21	1.15
1.85V	58.8	50.0	45.7	24.7	17.9	14.6	11.5	7.62	5.53	4.42	3.77	2.99	2.58	2.08	1.08

### 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	164	131	116	66.0	44.4	37.0	29.0	17.0	12.5	10.0	8.52	6.75	5.62	4.60	2.52
1.67V	150	121	110	64.0	43.2	36.0	29.0	16.4	12.2	9.72	8.36	6.63	5.53	4.52	2.45
1.70V	142	116	109	63.0	43.2	36.0	28.0	16.0	12.0	9.24	8.12	6.57	5.48	4.48	2.43
1.75V	131	108	108	61.0	43.2	36.0	28.0	15.7	11.8	9.12	7.96	6.42	5.25	4.38	2.38
1.80V	120	100	98.4	59.0	42.0	35.0	28.0	15.6	11.5	9.04	7.73	6.29	5.08	4.29	2.36
1.85V	109	92.5	89.6	58.0	40.8	34.0	27.0	14.7	10.8	8.50	7.27	5.91	4.78	4.03	2.22