



# JH Series High-Rate battery JH12-440W

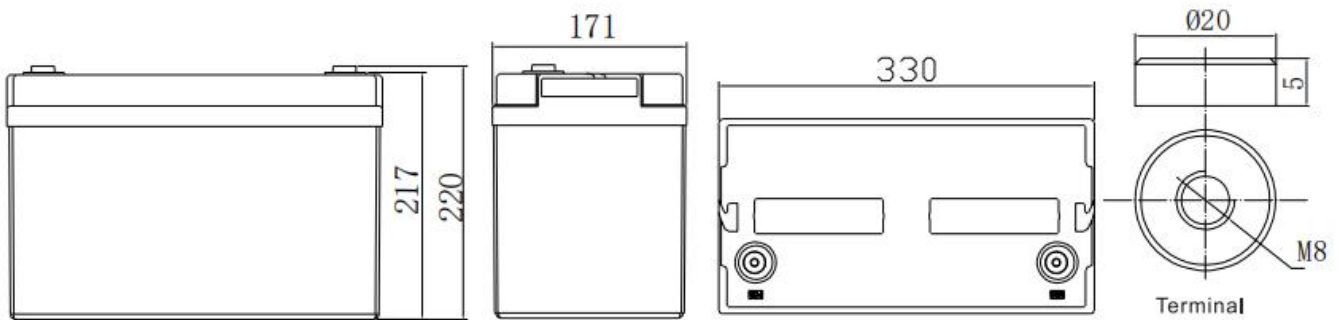
## General Features

- ▶ 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: 330(L) × 171(W) × 217(H) × 220(TH)**

**Unit: mm**



Specification	
Nominal Voltage	12V
Nominal Capacity	110Ah(440W@15min-rate to 1.67V percell@25°C)
Design life	10 years
Terminal	M8
Approx. Weight	Approx 32.5kg (71.7lbs)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	4000A
Internal resistance(Full charged at 25°C: )	3.0 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. 27.5A;Recom.11.0A
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

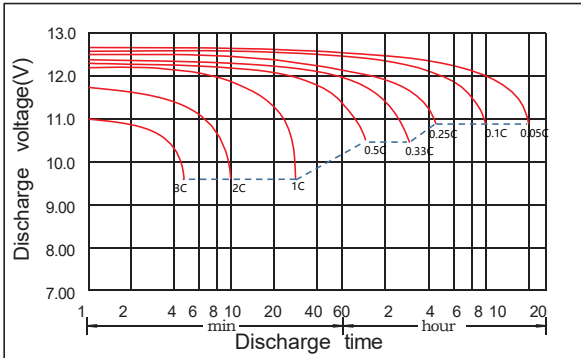
20Hour Rate (5.50A to 10.5V)	110.0Ah
3Hour Rate (31.3A to 10.2V)	93.9Ah
1Hour Rate (79.6A to 10.5V)	79.6Ah

## Attain Certificate

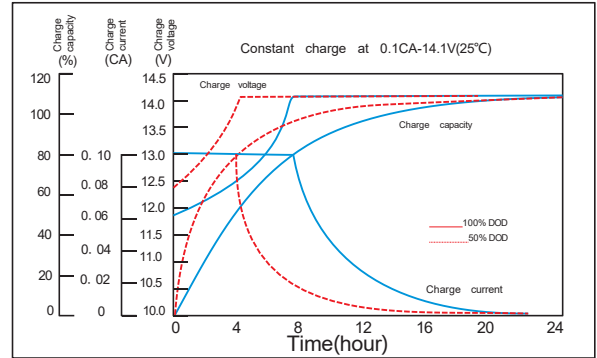


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

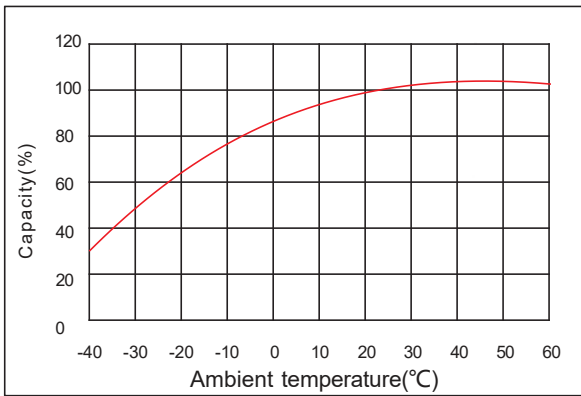
## Discharge characteristic



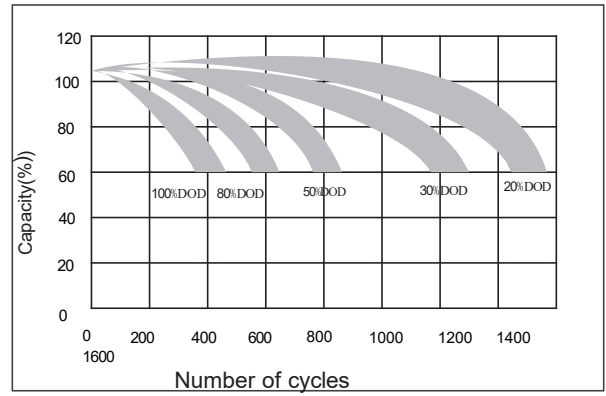
## Charging characteristic



## 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	438	340	237	135.1	83.1	79.6	53.8	36.3	32.8	27.2	24.0	18.9	14.2	12.19	5.65
1.67V	384	300	226	134.1	82.4	78.7	51.8	36.0	31.8	26.3	23.6	18.5	13.9	11.89	5.60
1.70V	359	282	223	132.2	81.6	78.0	50.6	35.7	31.3	25.0	23.3	18.2	13.7	11.60	5.55
1.75V	321	256	221	130.2	80.9	77.4	49.6	35.4	30.8	24.6	22.4	17.8	13.3	11.40	5.50
1.80V	285	231	202	128.3	80.2	76.1	47.3	35.0	29.2	24.0	21.3	17.4	12.8	11.10	5.45
1.85V	251	207	183	121.5	78.1	74.9	43.4	34.1	25.0	20.7	18.2	14.9	11.2	9.46	5.30

### 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	701	544	464	264	163	157	106	71.5	64.5	53.6	47.3	37.1	28.1	24.1	11.2
1.67V	642	501	440	262	162	155	102	70.9	62.7	51.9	46.5	36.6	27.6	23.6	11.1
1.70V	610	480	435	260	160	154	100	70.4	61.6	49.2	46.0	36.0	27.2	23.0	11.0
1.75V	562	448	432	256	159	153	98	69.8	60.7	48.4	44.0	35.2	26.4	22.5	10.9
1.80V	514	416	394	252	157	149	93	68.9	57.5	47.4	42.1	34.3	25.4	22.0	10.8
1.85V	466	384	359	239	154	148	86	67.4	49.4	40.8	36.1	29.6	22.2	18.8	10.6