

# JF12-110

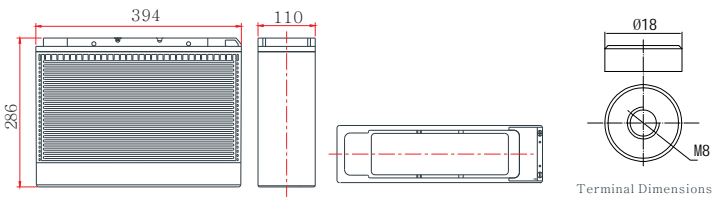


## General Features

- › Narrow structure and front terminal design, suitable for 19-inch and 23-inch standard cabinets
- › High corrosion resistant performance: Pb-Ca multi-alloy grid
- › Excellent charge acceptance ability
- › Excellent deep cycle discharge capability
- › Strong high and low temperature performance
- › Precision sealing technology
- › Long life



Dimension: 394(L)×110(W)×286(H)×286(TH) Unit: mm



# JF Series lead-acid battery

Executive standard YD/T 799-2010

## Applications

- › Telecom outdoor integration site
- › Power systems
- › UPS/EPS
- › Emergency lighting、Auto control system
- › Solar/wind generating storage cyclic
- › Other general purpose

## Specification

Nominal Voltage	12V		
Nominal Capacity	110Ah		
Design life	12 years		
Terminal	M8		
Approx. Weight	Approx 33.5kg (73.9lbs)		
Container Material	ABS		
Rated Capacity	110Ah	10Hour Rate	(11.0A to 10.8V)
	85.5Ah	3Hour Rate	(28.5A to 10.2V)
	70.1Ah	1Hour Rate	(70.1A to 9.60V)
Internal resistance	Full charged at 25°C: 6.5 m		
Max. Discharge Current	1320A(5S)		
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)		
	Charge: -20 ~50°C(-4~ 122°F)		
	Storage: -20 ~50°C(-4~ 122°F)		
Charge current:	Max. 27.5A ; Recom.11.0A		
Charge Method (25 °C)	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)		
Self discharge	3% of capacity declined per month at 25°C		

## Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

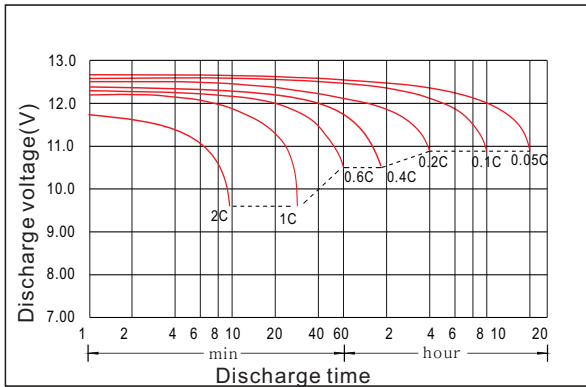
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	258	217	181	110	86.3	70.1	44.0	40.2	29.2	21.1	19.6	15.6	12.9	11.5	6.00
1.65V	250	216	177	108	85.1	68.9	43.5	40.0	28.9	20.9	19.4	15.5	12.7	11.3	5.88
1.70V	240	214	173	106	83.9	67.7	43.3	39.7	28.5	20.8	19.2	15.3	12.6	11.2	5.75
1.75V	221	211	167	105	82.8	66.6	42.8	39.1	28.2	20.6	19.0	15.2	12.5	11.1	5.63
1.80V	197	206	156	100	81.6	65.4	42.4	38.4	28.0	20.3	18.5	15.1	12.4	11.0	5.51
1.85V	177	191	138	92.1	75.3	61.4	41.2	36.5	26.3	19.7	17.5	14.6	11.9	10.7	5.37

## Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

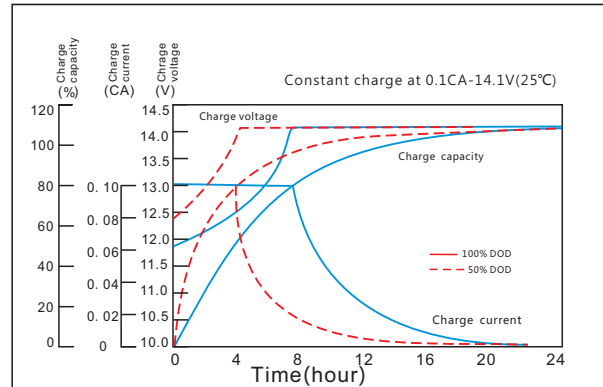
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	432	368	320	199	159	134	85.8	78.1	55.6	40.8	37.2	30.3	25.0	22.0	11.6
1.65V	416	365	315	198	158	131	84.9	77.6	54.8	40.3	37.0	30.0	24.8	21.9	11.4
1.70V	413	362	311	197	157	130	84.4	77.0	54.5	40.1	36.6	29.8	24.7	21.5	11.2
1.75V	386	359	309	196	155	128	83.4	75.8	54.2	39.7	36.5	29.4	24.5	21.4	10.9
1.80V	354	356	292	192	154	126	82.6	74.7	54.0	39.4	36.1	29.2	24.3	21.1	10.7
1.85V	316	333	261	176	143	119	81.1	71.5	51.4	38.7	34.4	28.6	23.4	20.8	10.5

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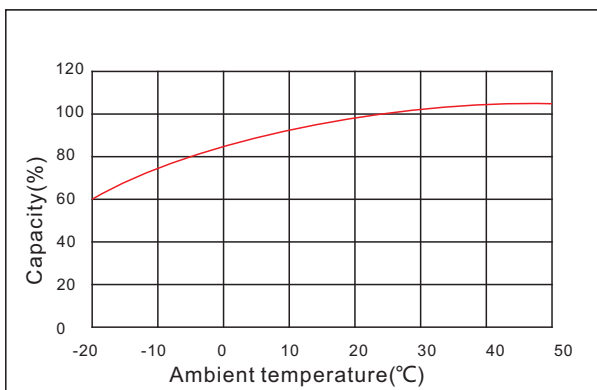
Discharge characteristic



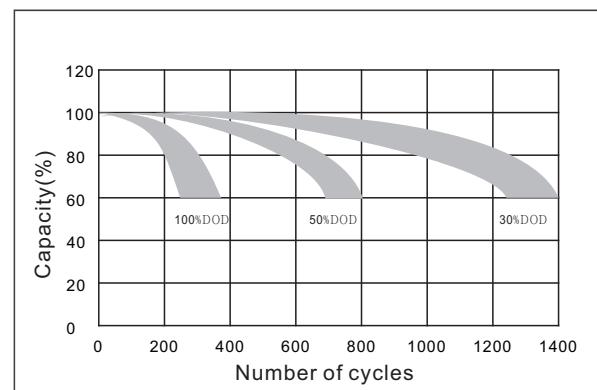
Charging characteristic



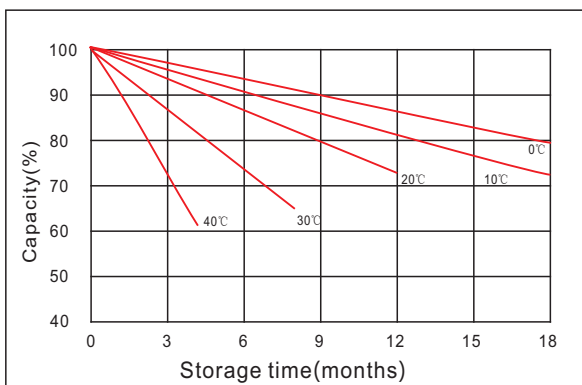
The effect of temperature on capacity



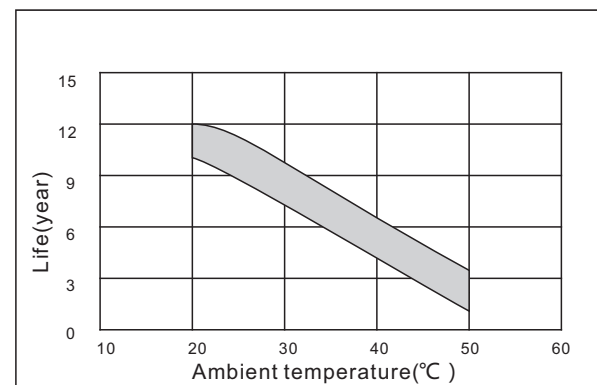
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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