

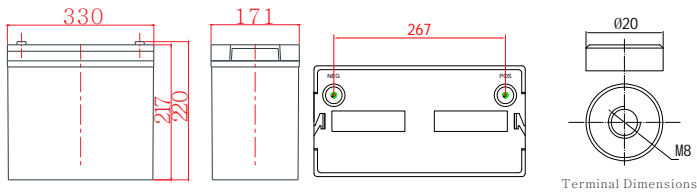


### General Features

- 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



### Applications

- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting、Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

### Specification

Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 28.0kg (61.72lbs)
Container Material	ABS
Rated Capacity	<b>100Ah</b> 10Hour Rate (10.0A to 10.8V)
	<b>82.2Ah</b> 3Hour Rate (27.4A to 10.2V)
	<b>67.3Ah</b> 1Hour Rate (67.3A to 9.60V)
Internal resistance	Full charged at 25°C: 5.5mΩ
Max. Discharge Current	1200A(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. 25A ; Recom. 10A
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)

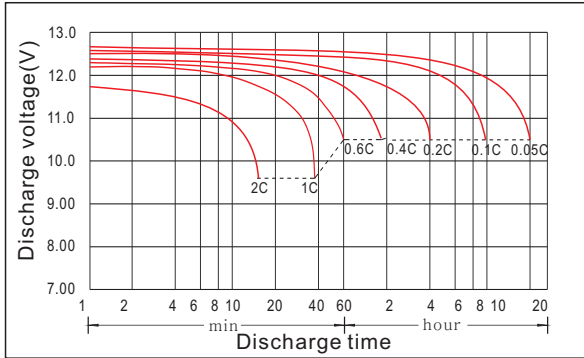
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	354	235	190	112	82.9	67.3	42.5	38.7	28.1	20.4	18.9	15.1	12.4	10.4	5.48
1.65V	344	234	185	110	82.4	66.9	42.1	38.5	27.8	20.2	18.7	14.9	12.3	10.3	5.45
1.70V	330	232	181	108	81.8	66.4	41.7	38.2	27.4	20.0	18.5	14.8	12.2	10.2	5.42
1.75V	304	229	175	107	80.6	65.5	41.3	37.6	27.1	19.8	18.3	14.7	12.1	10.1	5.40
1.80V	271	223	163	102	78.6	63.8	40.9	36.9	27.0	19.6	17.8	14.5	12.0	10.0	5.37
1.85V	242	207	145	93.6	72.8	59.1	39.5	35.1	25.4	19.0	17.0	14.1	11.5	9.74	5.28

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

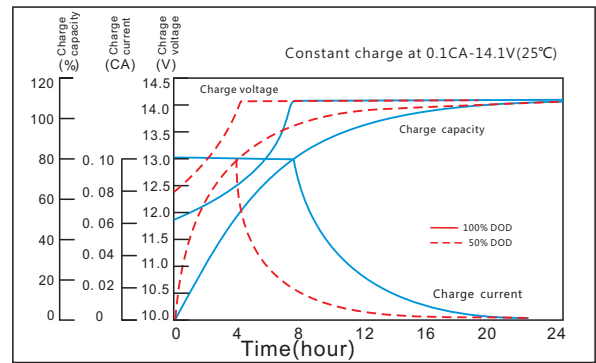
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	594	398	335	202	153	127	84.7	73.3	53.5	40.1	35.8	29.4	24.1	20.1	10.8
1.65V	571	395	330	201	152	126	83.9	73.1	52.8	39.7	35.6	29.1	23.9	20.0	10.8
1.70V	568	392	326	201	151	125	83.0	72.8	52.5	39.3	35.3	28.8	23.8	19.7	10.7
1.75V	530	389	324	200	150	124	82.2	72.4	52.2	38.9	35.1	28.6	23.6	19.5	10.7
1.80V	487	386	306	196	149	123	81.3	72.2	52.0	38.5	34.7	28.3	23.4	19.2	10.6
1.85V	434	361	273	179	139	115	80.1	69.0	49.5	37.9	33.1	27.8	22.6	19.0	10.5

# JM12-100

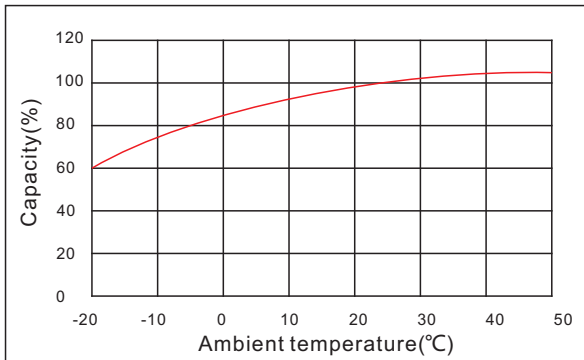
**Discharge characteristic**



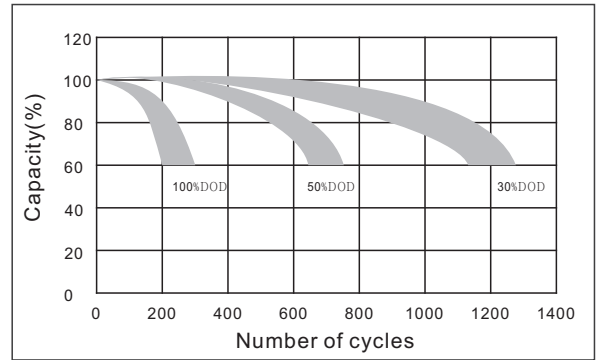
**Charging characteristic**



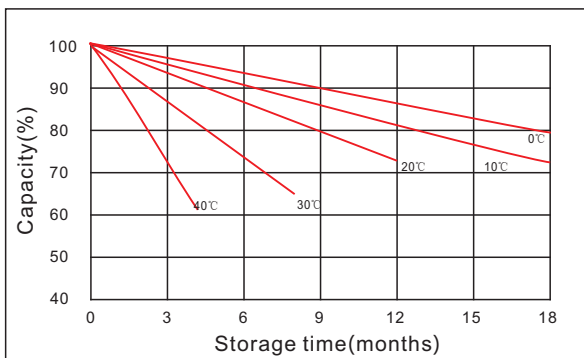
**The effect of temperature on capacity**



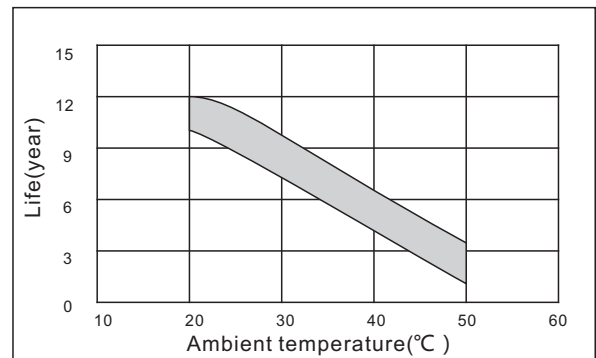
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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