

## JM12-100

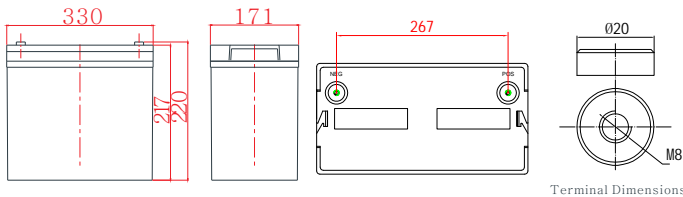


### General Features

- 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



Terminal Dimensions

### 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 30.0kg (66.13lbs)
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>70Ah</b> 1Hour Rate (70A to 9.60V)
Internal resistance	Full charged at 25°C: 4.0mΩ
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)

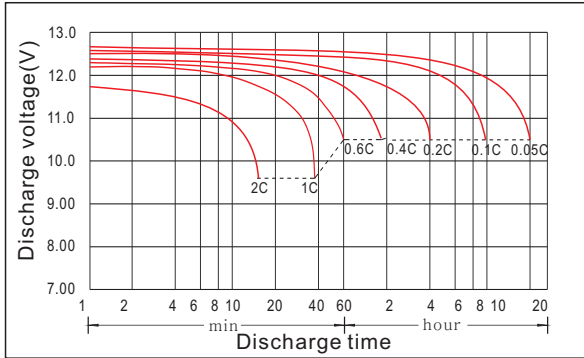
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	367	244	191	116	85.9	70.0	42.3	38.8	28.1	20.3	18.9	15.0	12.3	10.4	5.33
1.65V	354	242	184	114	85.3	69.5	41.9	38.6	27.9	20.1	18.7	14.8	12.2	10.3	5.30
1.70V	342	240	181	112	84.8	69.1	41.5	38.3	27.4	19.9	18.5	14.7	12.1	10.2	5.27
1.75V	313	237	175	111	83.4	68.0	41.1	37.7	27.1	19.7	18.3	14.6	12.0	10.1	5.25
1.80V	280	231	162	106	81.3	66.3	40.7	37.0	27.0	19.5	17.9	14.4	12.0	10.0	5.23
1.85V	251	214	145	97.0	75.4	61.5	39.4	35.1	25.4	18.9	17.0	14.0	11.4	9.70	5.13

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

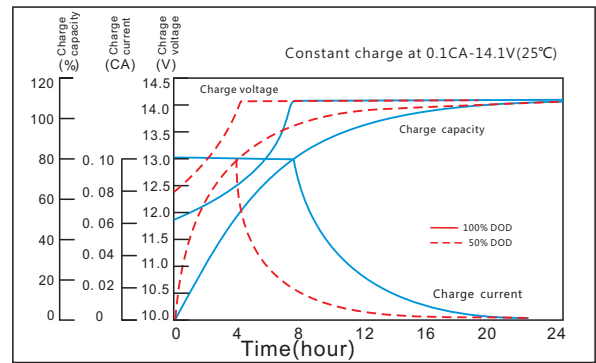
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	618	415	335	210	160	133	84.4	73.3	53.6	40.0	35.8	29.3	24.0	20.0	10.5
1.65V	594	412	329	207	158	132	83.6	73.1	52.9	39.6	35.6	29.0	23.8	19.8	10.5
1.70V	592	409	326	207	157	131	82.7	72.9	52.5	39.2	35.4	28.7	23.7	19.6	10.4
1.75V	547	402	322	206	155	129	81.9	72.4	52.2	38.8	35.1	28.5	23.6	19.4	10.4
1.80V	502	399	306	201	154	128	81.0	72.2	52.1	38.4	34.7	28.2	23.3	19.2	10.3
1.85V	450	371	271	184	143	119	79.8	69.0	49.5	37.8	33.1	27.7	22.6	18.9	10.3

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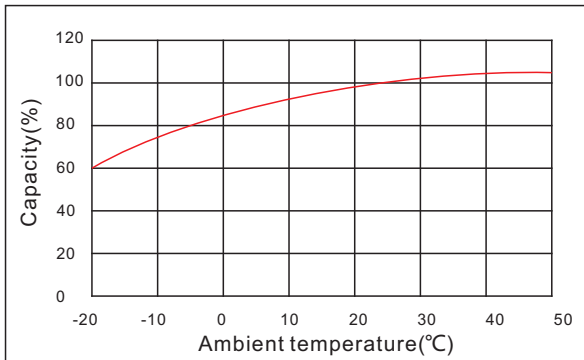
**Discharge characteristic**



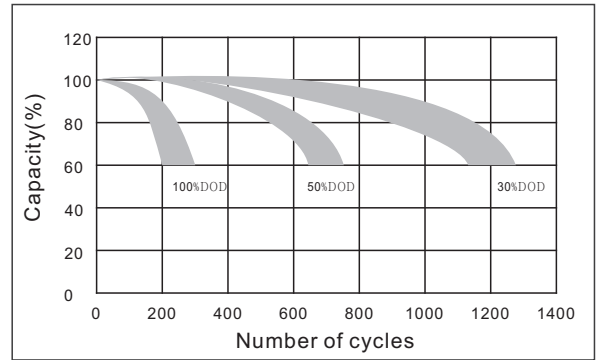
**Charging characteristic**



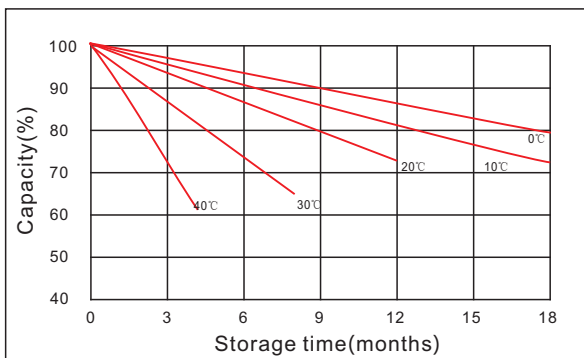
**The effect of temperature on capacity**



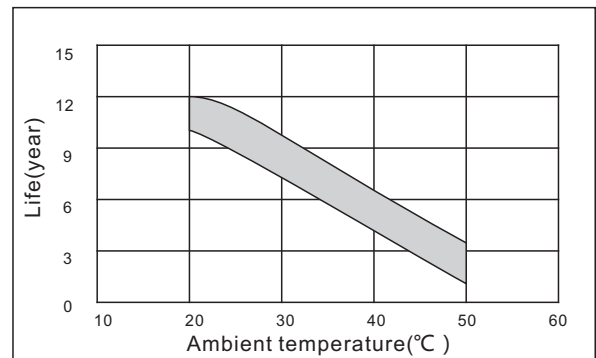
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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