

## JM12-100

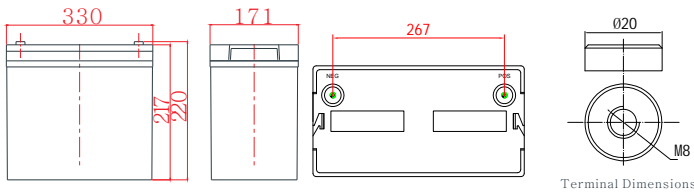


### General Features

- 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 28.0kg (61.73lbs)
Container Material	ABS
Rated Capacity	100Ah ➔ 10Hour Rate (10.0A to 10.8V)
	75Ah ➔ 3Hour Rate (25A to 10.2V)
	55Ah ➔ 1Hour Rate (55A 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)

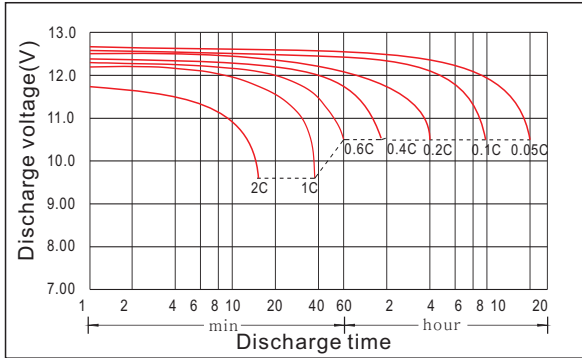
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	288	191	165	100	67.5	55.0	42.3	35.4	25.6	20.3	17.2	15.0	12.3	10.4	5.33
1.65V	278	190	158	98.0	67.0	54.6	41.9	35.2	25.4	20.1	17.1	14.8	12.2	10.3	5.30
1.70V	269	189	155	96.0	66.6	54.3	41.5	34.9	25.0	19.9	16.9	14.7	12.1	10.2	5.27
1.75V	246	186	150	95.0	65.6	53.5	41.1	34.3	24.7	19.7	16.7	14.6	12.0	10.1	5.25
1.80V	220	181	139	91.0	63.9	52.1	40.7	33.7	24.6	19.5	16.3	14.4	12.0	10.0	5.23
1.85V	197	168	124	83.0	59.2	48.3	39.4	32.0	23.2	18.9	15.4	14.0	11.4	9.70	5.13

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

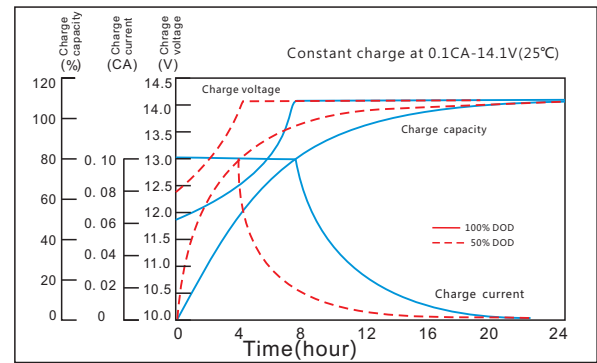
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	483	324	289	181	125	104	84.4	66.8	48.8	40.0	32.6	29.3	24.0	20.0	10.5
1.65V	470	321	285	179	124	103	83.6	66.6	48.2	39.6	32.4	29.0	23.8	19.8	10.5
1.70V	465	321	282	179	124	103	82.7	66.4	47.9	39.2	32.2	28.7	23.7	19.6	10.4
1.75V	432	318	278	178	122	102	81.9	66.0	47.6	38.8	32.0	28.5	23.6	19.4	10.4
1.80V	396	315	263	173	121	101	81.0	65.8	47.5	38.4	31.6	28.2	23.3	19.2	10.3
1.85V	351	290	234	159	112	93.0	79.8	62.8	45.1	37.8	30.2	27.7	22.6	18.9	10.3

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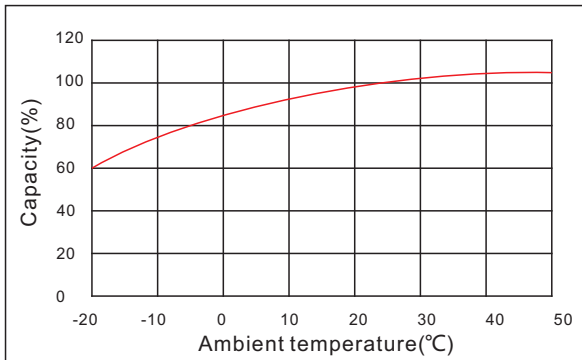
**Discharge characteristic**



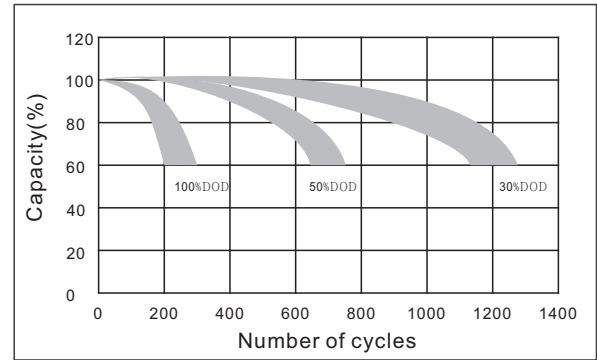
**Charging characteristic**



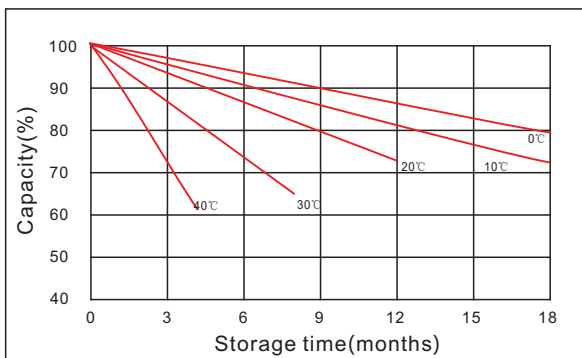
**The effect of temperature on capacity**



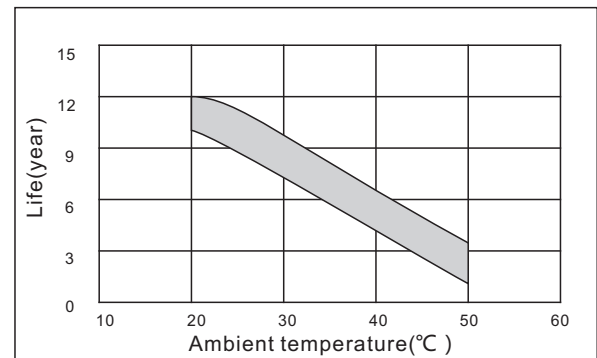
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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