

## JM12-120

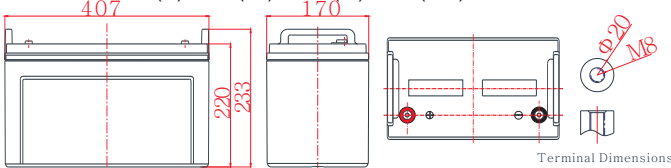


### General Features

- > 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: 407(L) × 170(W) × 220(H) × 223(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	120Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 35.0kg (77.2lbs)
Container Material	ABS
Rated Capacity	120Ah → 10Hour Rate (12.0A to 10.8V)
	96.6Ah → 3Hour Rate (32.2A to 10.8V)
	78.6Ah → 1Hour Rate (78.6A to 10.5V)
Internal resistance	Full charged at 25°C: 4.2 mΩ
Max. Discharge Current	1440A(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. 30A ; Recom. 12A
Charge Method (25°C)	Float Charge: 13.5-13.8V, recom. 13.5V (-18mV/°C)
	Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/°C)
	Cycle charge: 14.4-15.0V, recom. 14.4V (-30mV/°C)
Self discharge	3% of capacity declined per month at 25°C

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

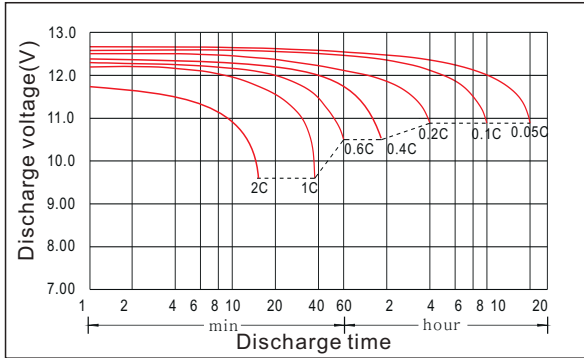
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	423	227	138	80.8	46.3	33.6	22.6	14.8	12.5	6.55
1.65V	410	220	136	80.3	46.1	33.3	22.3	14.7	12.4	6.52
1.70V	394	216	133	79.7	45.7	32.8	22.1	14.6	12.2	6.48
1.75V	362	209	132	78.6	45.0	32.5	21.9	14.5	12.1	6.46
1.80V	324	194	127	76.6	44.2	32.2	21.3	14.3	12.0	6.42
1.85V	289	173	115	70.9	42.0	30.3	20.2	13.8	11.6	6.31

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

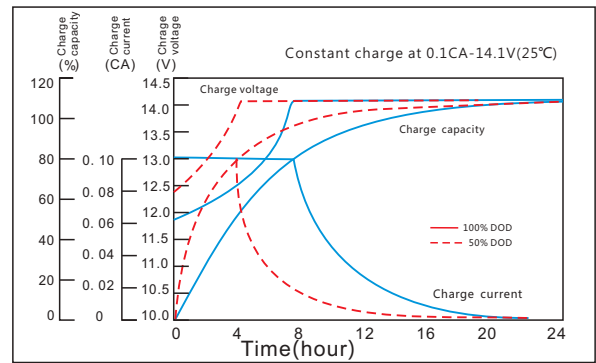
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	709	400	250	153	87.6	64.0	42.8	28.8	24.0	13.0
1.65V	682	393	248	152	87.4	63.2	42.6	28.6	23.8	12.9
1.70V	678	388	248	150	87.0	62.8	42.2	28.5	23.5	12.8
1.75V	633	386	246	149	86.6	62.4	42.0	28.2	23.3	12.8
1.80V	581	365	241	148	86.3	62.2	41.5	28.0	23.0	12.7
1.85V	519	326	221	137	82.4	59.2	39.6	27.0	22.7	12.6

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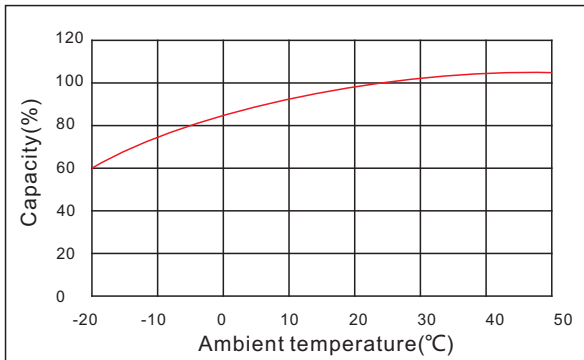
**Discharge characteristic**



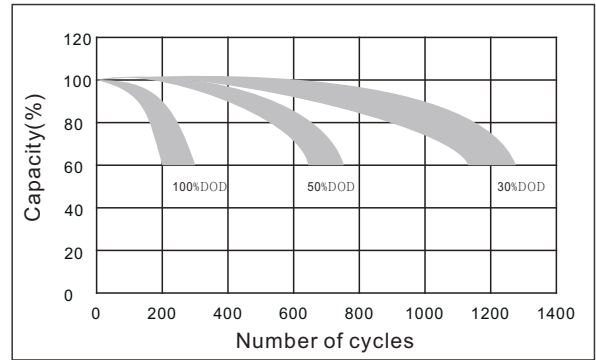
**Charging characteristic**



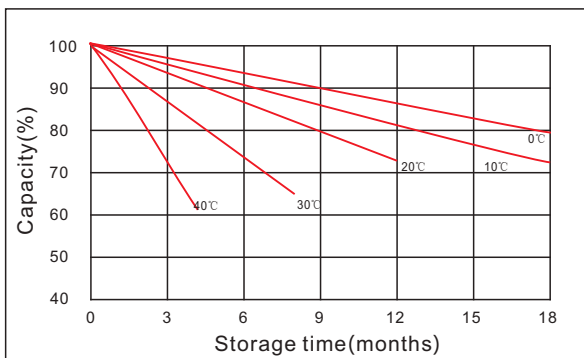
**The effect of temperature on capacity**



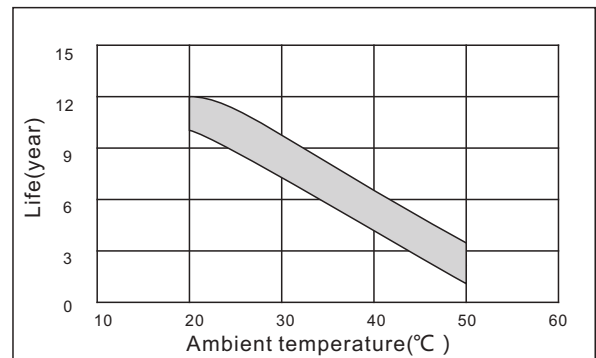
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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