

MAX POWER[®]

MP120-12

MP Series AGM-GEL battery



Applications

- › Solar / wind energy and other new energy storage
- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting、Auto control system
- › Other general purpose

Specification

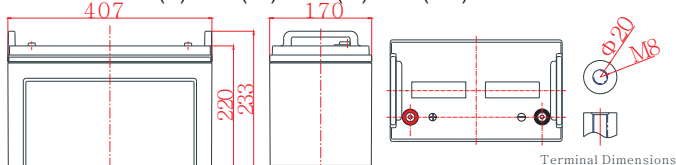
Nominal Voltage	12V
Nominal Capacity	120Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 35.0kg (77.2lbs)
Container Material	ABS
Rated Capacity	120Ah 10Hour Rate (12.0A to 10.8V)
	94.8Ah 3Hour Rate (31.6A to 10.8V)
	77.0Ah 1Hour Rate (77.0A to 10.5V)
Internal resistance	Full charged at 25°C: 4.5 mΩ
Max. Discharge Current	1440A(5S)
Operating Temperature	Discharge: -40 ~60°C(-40~ 140°F)
	Charge: -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
Charge current:	Max. 30.0A ; Recom.12.0A
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

General Features

- › Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- › Relatively rich electrolyte, high temperature and low temperature performance is superior
- › Long cycle life, excellent deep cycle discharge ability
- › Excellent charge acceptance ability
- › Precision sealing technology
- › Long life



Dimension:407(L)×170(W)×220(H)×223(TH) Unit: mm



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

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	220	134	79.2	45.4	33.0	22.1	14.5	12.4	6.54
1.65V	214	132	78.7	45.2	32.6	21.9	14.4	12.3	6.50
1.70V	209	129	78.1	44.8	32.2	21.7	14.3	12.2	6.47
1.75V	202	128	77.0	44.1	31.8	21.4	14.2	12.1	6.44
1.80V	189	123	75.0	43.3	31.6	20.9	14.1	12.0	6.41
1.85V	168	112	69.5	41.1	29.7	19.8	13.5	11.6	6.30

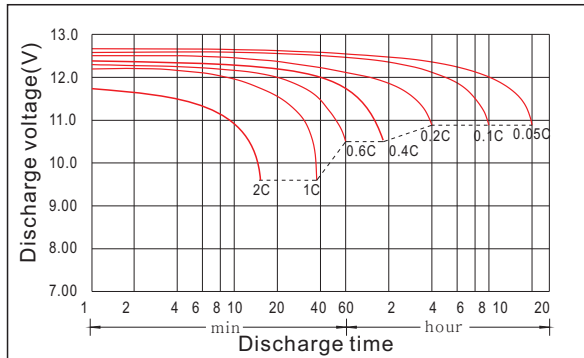
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	388	243	150	85.9	62.7	42.0	28.2	23.9	12.9
1.65V	381	240	149	85.6	61.9	41.7	28.0	23.6	12.9
1.70V	377	240	147	85.3	61.5	41.4	27.9	23.4	12.8
1.75V	374	239	146	84.8	61.2	41.1	27.7	23.2	12.8
1.80V	354	233	145	84.6	61.0	40.7	27.4	22.9	12.7
1.85V	316	214	135	80.8	58.0	38.8	26.5	22.6	12.6

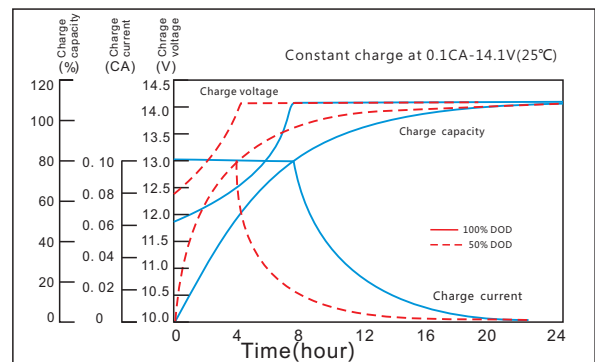
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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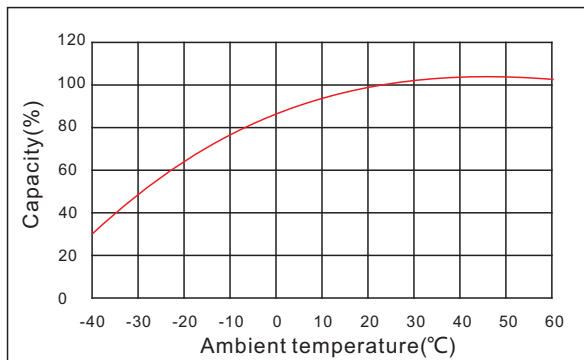
Discharge characteristic



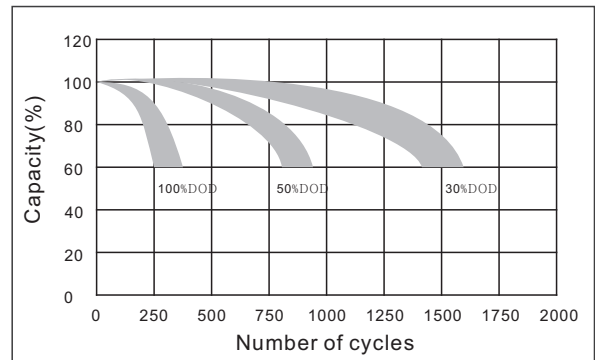
Charging characteristic



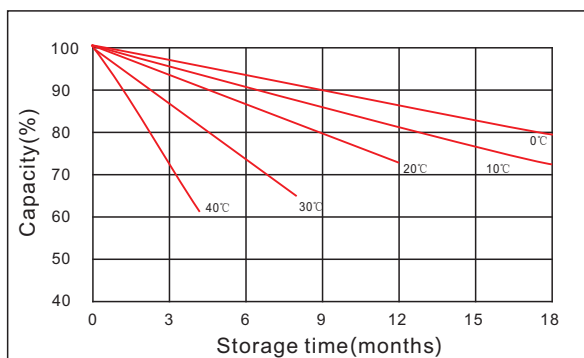
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

