

### General features for MPb Series (AGM) battery

- \* Stable quality & high reliability.
- \* Unique construction and sealing technique guarantees.
- \* Design life 10years in float service;the battery comply to the most popular international standards,like IEC60896-21/22,etc
- \* Maintenance-free operation.
- \* UL-recognized component.
- \* Heavy duty grids:  
The heavy-duty lead calcium-alloy grids ,provide an extra margin of performance and service life in float & cyclic.
- \* Case and cover are available in both standard and flame retardant ABS.
- \* Low self discharge;low pressure venting system.



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**MP6-200 (6V200Ah)**

### Specifications

Nominal Voltage		6V
Rated capacity (10 hour rate)		200 Ah
Dimensions (±2mm)	Total Height	230 mm (9.05 inches)
	Height	224 mm (8.80 inches)
	Length	323 mm (12.7 inches)
	Width	178 mm (7.00 inches)
Weight Approx (±3%)		30.5 Kg (67.3lbs)

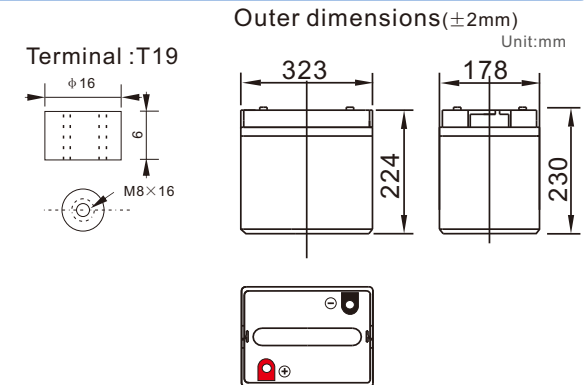
### Battery picture and construction



#### Battery Construction

Component	Positive plate	Negative plate	Container	Cover
Raw material	Lead dioxide	Lead	ABS	ABS
Component	Electrolyte	Separator	Safety valve	Terminal
Raw material	Dilute sulfuric acid	Fiberglass	Rubber	Copper

### Outer dimension and terminal



### Characteristics

Capacity 25°C(77°F)	10 hour rate(20 A,5.4V) 5 hour rate(32A,5.25V) 1 hour rate(120 A,4.8V)	200 Ah 160Ah 120 Ah
Internal Resistance	Full charged battery at 25°C(77°F)	Approx 2.0 mΩ
Capacity affected by Temperature (10hour rate)	40°C (104°F) 25°C (77°F) 0°C (32°F) -15°C (5°F)	102% 100% 85% 65%
Remaining capacity Self-Discharge At 25°C(77°F)	Capacity after 3 month storage Capacity after 6 month storage Capacity after 12 month storage	91% 82% 64%
Terminal type	T19	
Max. Discharge current 25°C/(77°F)	1550A (5Seconds)	
Nominal operating temperature	25°C ±5°C(77°F ±9°F)	
Operating Temperature Range	Discharge Charge Storage	-15°C ~50°C (5°F ~122°F) -10°C ~50°C (14°F ~122°F) -20°C ~50°C (-4°F ~122°F)
Charge methods (constant Voltage) At 25°C(77°F)	Cycle use Standby use	Initial Charging Current less than 50 A Voltage 7.25-7.45V Temperature compensation:-15mV/°C Voltage 6.75-6.90V Temperature compensation:-9mV/°C

### Constant current discharge (25°C , 77 °F)

### Constant power discharge (25°C , 77 °F)

Unit:A

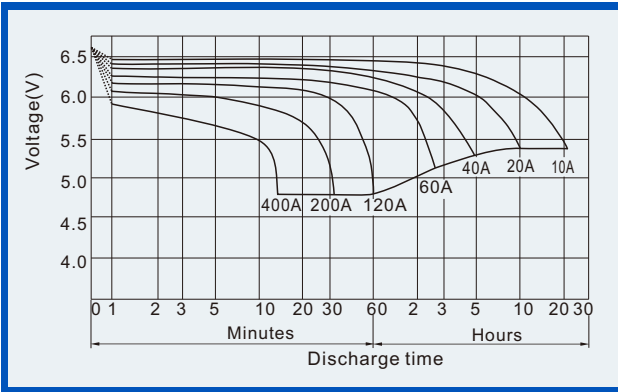
Unit:watts

Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)												
Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
4.80V	A	641	422	340	228	120	70.0	51.4	40.0	33.0	23.4	11.3
	W	6611	4507	3648	2451	1296	769	572	450	375	268	132
5.10V	A	620	381	320	218	113	66.8	50.0	39.0	32.4	22.8	11.00
	W	6626	4252	3585	2447	1276	770	579	453	378	267	129
5.25V	A	600	341	280	204	109	65.2	48.8	38.4	32.0	22.6	11.0
	W	6554	3875	3198	2348	1265	756	569	449	375	266	130
5.40V	A	578	321	260	188	106	63.6	47.6	37.8	31.2	22.0	10.80
	W	6490	3702	3000	2178	1229	745	561	446	369	261	129
5.55V	A	559	301	240	168	102	62.0	46.0	36.8	30.4	21.4	10.20
	W	6339	3483	2798	1966	1200	733	546	438	363	256	124

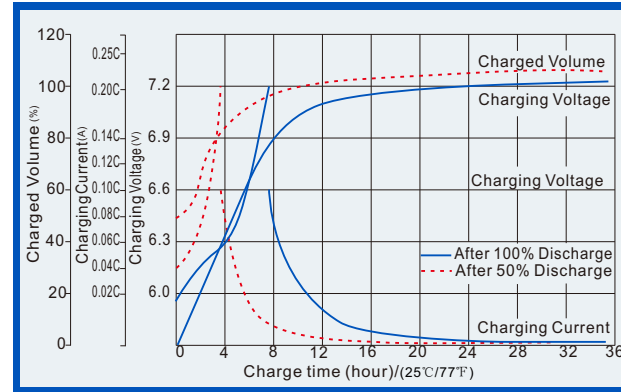
(Above characteristics data are average values obtained within three charge/discharge cycles,not the minimum values.)

# VRLA Battery (AGM technology) Maintenance-free Sealed Lead Acid Rechargeable Battery

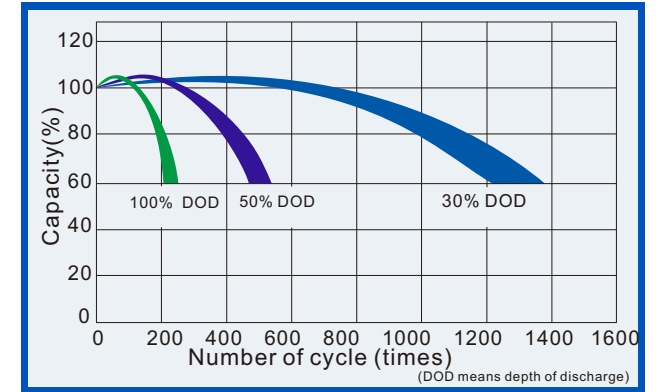
**Discharge characteristics (25°C, 77°F)**



**Charge characteristics (25°C, 77°F)**



**Life characteristics of Cyclic Use (25°C, 77°F)**



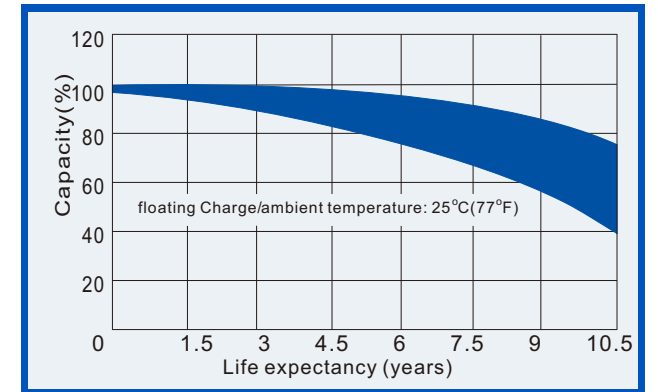
**Effect of Temperature on capacity**



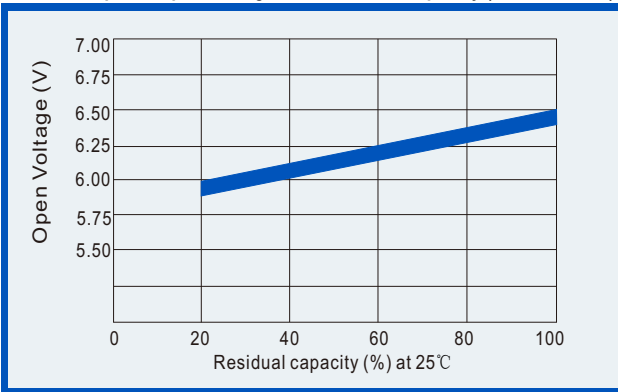
**Self-discharge characteristics**



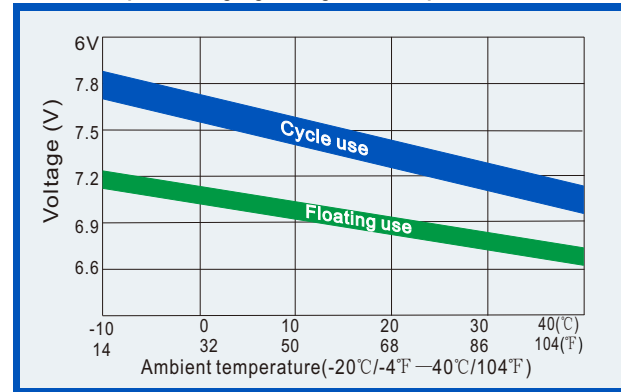
**Life Characteristics of float service (25°C, 77°F)**



**Relationships for open voltage and remained capacity (for reference)**



**Relationship for charging voltage and temperature**



**Temperature effects on floating life**

