

## General features for MPt Series (AGM) battery

- \* Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- \* Computer designed lead, calcium tin alloy grid for high power density.
- \* Long service life, float or cyclic applications.
- \* UL-recognized component.
- \* No need of balanced charge or boost.

- \* Valve Regulated & High Discharge Rate Capability.
- \* Maintenance-free operation. Low self discharge.
- \* Case and cover are available in both standard and flame retardant ABS.
- \* Battery comply to the most popular international standards, like IEC60896-21/22, etc.



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**MP2-800 (2V800Ah)**

## Specifications

Nominal Voltage	2 V	
Rated capacity (10 hour rate)	800 Ah	
Dimensions (±2mm)	Total Height (Include top cover)	367 mm (14.4 inches)
	Height	330 mm (13.0 inches)
	Length	410 mm (16.1 inches)
	Width	175 mm (6.89 inches)
Weight Approx (±3%)	50.00 Kg (110.10lbs)	

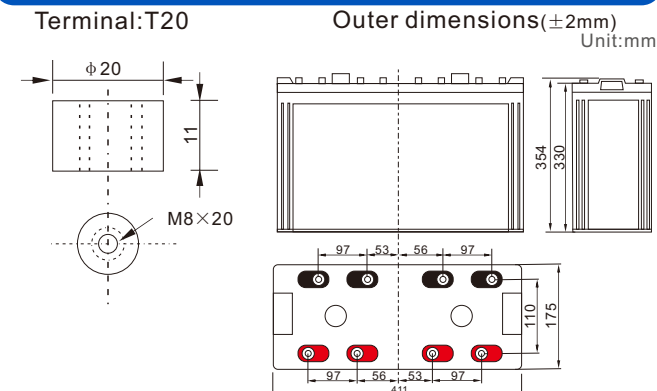
## Battery picture and construction



### 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	Fibreglass	Rubber	Copper

## Outer dimension and terminal



(Total height 367mm includes the top cover)

## Characteristics

Capacity 25°C(77°F)	10 hour rate(80A, 1.8V) 5 hour rate(128A, 1.75V) 1 hour rate(480A, 1.6V)	800Ah 640Ah 480Ah
Internal Resistance	Full charged battery at 25°C(77°F)	Approx 0.40 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	T20	
Max. Discharge current 25°C/(77°F)	5500A (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 200 A Voltage 2.42-2.48V Temperature compensation:-5mV/°C Voltage 2.25-2.30V Temperature compensation:-3mV/°C

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

Unit:A

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

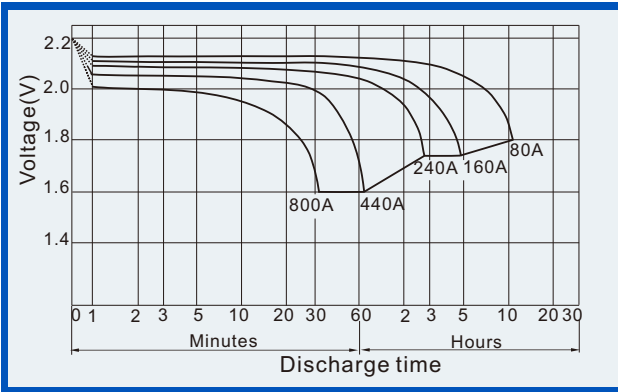
Unit:watts

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	A	2562	1688	1361	912	480	280.0	205.6	160.0	132.0	93.6	45
	W	4407	3005	2432	1634	864	512	381.4	300.0	250.1	178.8	88
1.70V	A	2482	1523	1282	872	451	267.2	200.0	156.0	129.6	91.2	44.0
	W	4417	2835	2390	1632	851	513	386.0	302.3	251.8	177.8	86.0
1.75V	A	2401	1362	1121	816	437	260.8	195.2	153.6	128.0	90.4	44.0
	W	4369	2583	2132	1565	843	504	379.1	299.5	250.1	177.2	86.7
1.80V	A	2314	1284	1042	752	422	254.4	190.4	151.2	124.8	88.0	43.2
	W	4326	2468	2000	1452	819	497	374.1	297.6	245.9	173.8	85.8
1.85V	A	2236	1203	962	672	408	248.0	184.0	147.2	121.6	85.6	40.8
	W	4226	2322	1866	1310	800	489	364.3	292.2	241.9	170.9	82.4

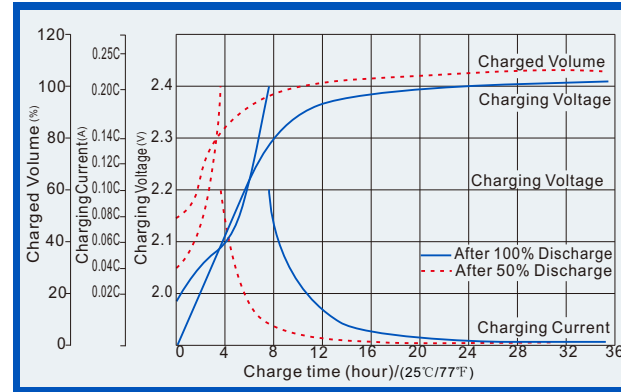
(Above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.)

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

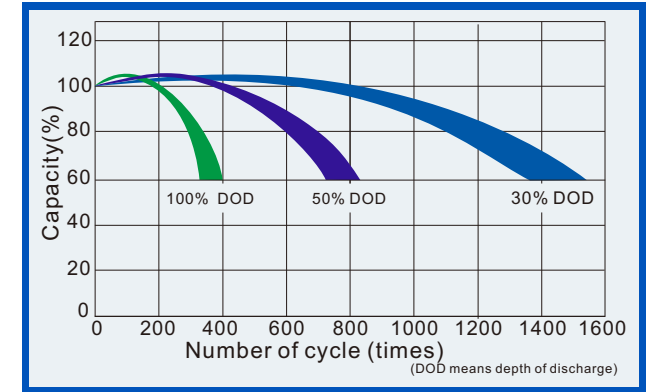
**Discharge characteristics (25°C, 77°F)**



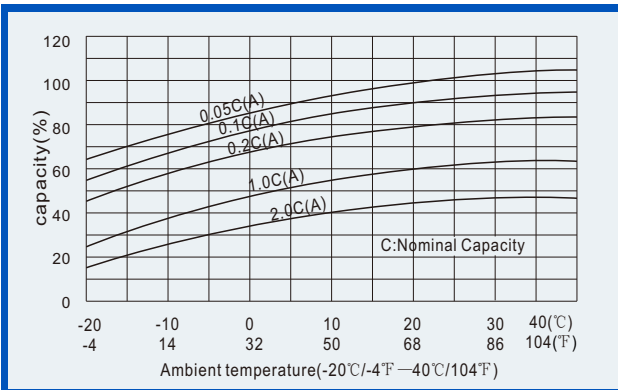
**Charge characteristics (25°C, 77°F)**



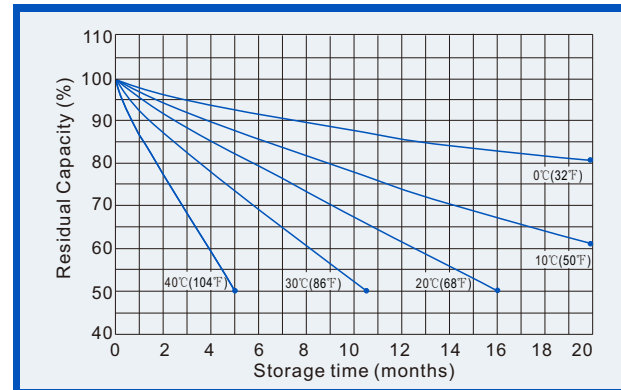
**Life characteristics of Cyclic Use (25°C, 77°F)**



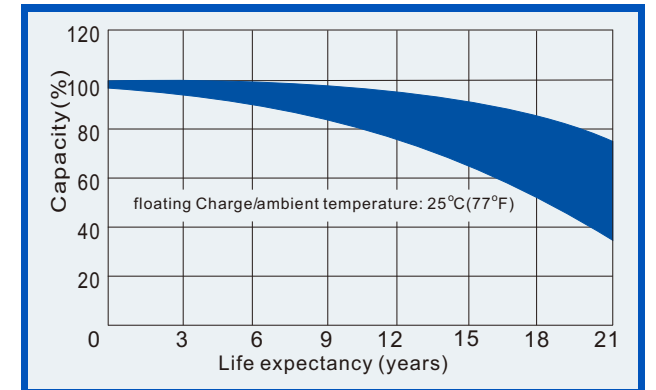
**Effect of Temperature on capacity**



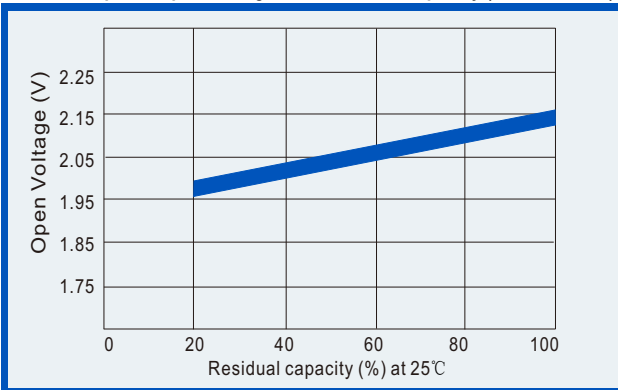
**Self-discharge characteristics**



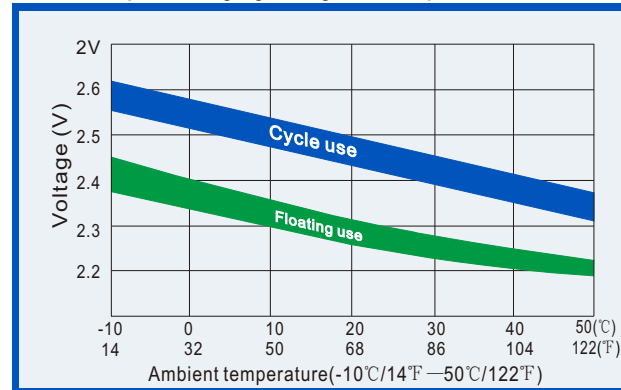
**Life Characteristics of float service (25°C, 77°F)**



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



**Relationship for charging voltage and temperature**



**Temperature effects on floating life**

