

General features for MPa Series (AGM) battery

- * Stable quality & high reliability.
- * Unique construction and sealing technique guarantees.
- * Design life 5years in float service;Long service life ,float or cyclic, which is shown in the specification sheet.
- * 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.



Maxton Power Tech Co.,Ltd
www.maxtonpower.com
info@maxtonpower.com

MP12-26 (12V26Ah)

Specifications

Nominal Voltage			12V	
Rated capacity (20 hour rate)			26Ah	
Dimensions (±2mm)	Total Height	T13	125 mm (4.92 inches)	
		T4	125 mm (4.92 inches)	
	Height		125 mm (4.92 inches)	
	Length		175 mm (6.89inches)	
	Width		166 mm (6.54 inches)	
Weight Approx (±3%)			7.60Kg (16.74 lbs)	

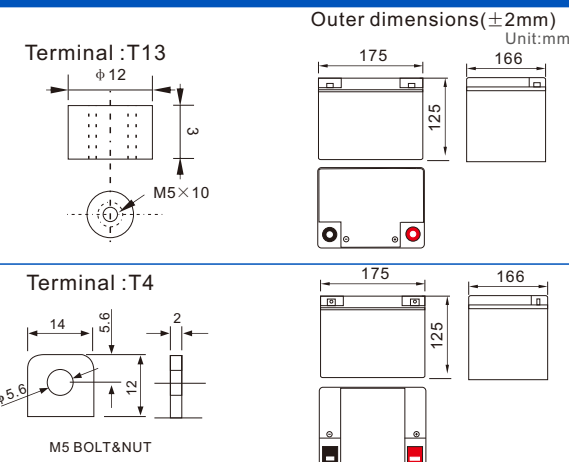
Battery picture and construction



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)	20 hour rate(1.3 A,10.5V) 10 hour rate(2.39A,10.5V) 5 hour rate(4.21A,10.5V) 1 hour rate(15.6 A,9.6V)	26.0Ah 23.9Ah 22.1Ah 15.6 Ah
Internal Resistance	Full charged battery at 25°C(77°F)	Approx 14 mΩ
Capacity affected by Temperature (20hour rate)	40°C (104°F) 25°C (77°F) 0°C (32°F) -15°C (5°F)	102% 100% 85% 65%
Remaining capacity	Capacity after 3 month storage	91%
Self-Discharge	Capacity after 6 month storage	82%
At 25°C(77°F)	Capacity after 12 month storage	64%
Terminal type	T13 (Option T4)	
Max. Discharge current 25°C/(77°F)	390A (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	Initial Charging Current less than 7.8 A Voltage 14.5-14.9V Temperature compensation:-30mV/°C
	Standby use	Voltage 13.5-13.8V Temperature compensation:-18mV/°C

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

Unit:A

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
9.60V	A	93.60	61.36	45.50	29.90	15.60	9.10	6.70	5.37	4.56	3.01	2.46	1.34
	W	1103.9	693.3	524.3	317.4	179.8	105.3	77.5	62.2	52.8	34.8	28.5	15.6
10.20V	A	85.80	58.72	41.82	28.38	14.65	8.73	6.50	5.20	4.47	2.96	2.42	1.31
	W	1038.9	656.5	492.9	315.3	169.0	101.1	75.3	60.2	51.8	34.2	28.0	15.2
10.50V	A	78.11	54.86	39.00	27.52	14.17	8.56	6.39	4.94	4.45	2.93	2.39	1.30
	W	1003.2	637.0	471.3	312.0	164.0	99.1	74.0	57.2	51.5	33.9	27.7	15.1
10.80V	A	75.06	52.43	36.40	26.76	13.69	8.34	6.28	4.85	4.23	2.85	2.33	1.27
	W	879.7	617.5	453.9	310.9	159.3	97.1	73.1	56.5	49.2	32.5	27.1	14.7
11.10V	A	69.42	49.40	33.80	26.00	13.22	8.13	5.96	4.77	4.04	2.77	2.28	1.24
	W	850.4	596.9	432.3	308.8	157.1	96.4	71.0	56.3	48.1	31.4	26.5	14.6

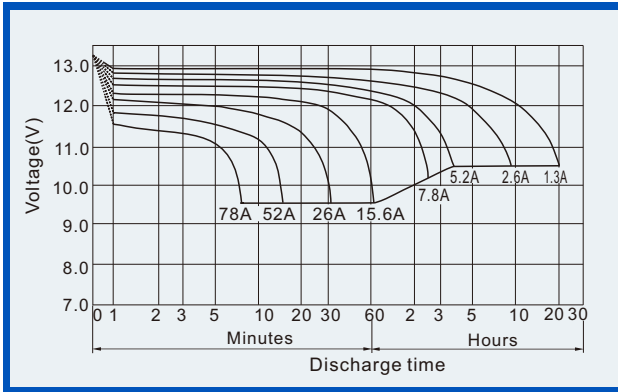
(Above characteristics data are average values obtained within three charge/discharge cycles,not the minimum values.)

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

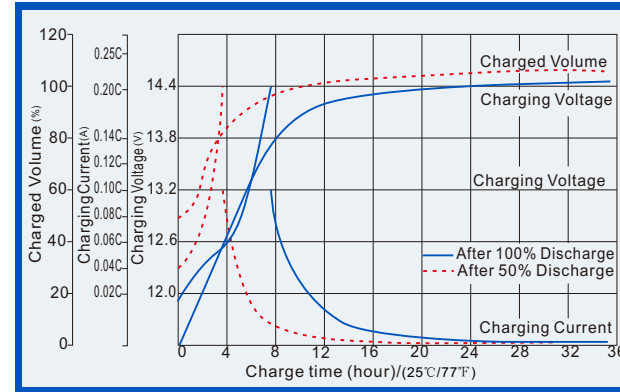
Unit:watts

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

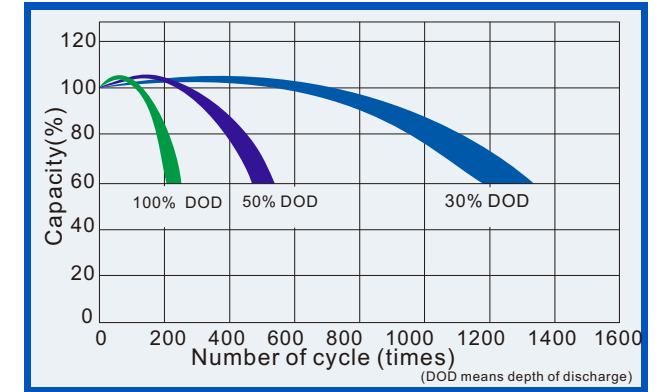
Discharge characteristics (25°C, 77°F)



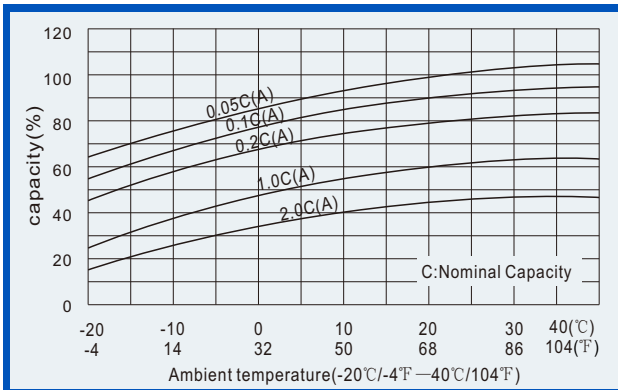
Charge characteristics (25°C, 77°F)



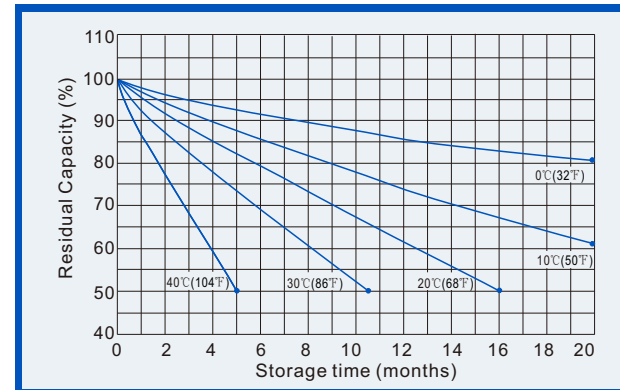
Life characteristics of Cyclic Use (25°C, 77°F)



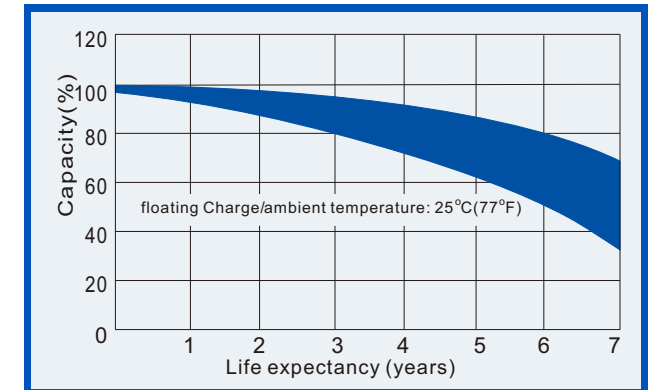
Effect of Temperature on capacity



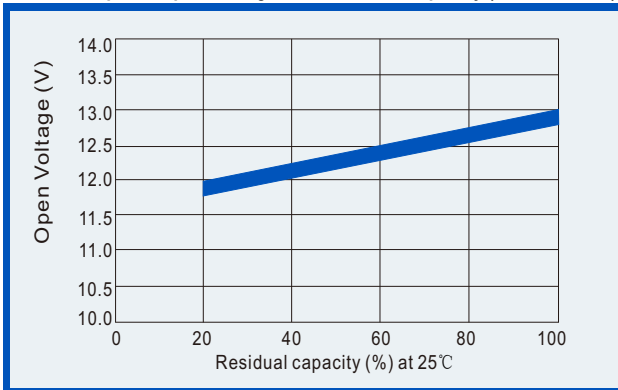
Self-discharge characteristics



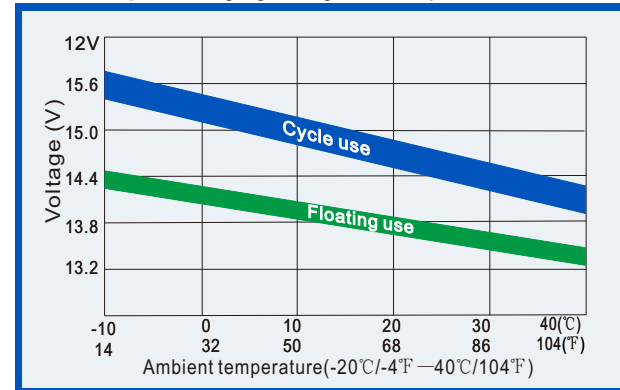
Life Characteristics of standby use (25°C, 77°F)



Relationships for open voltage and remained capacity (for reference)



Relationship for charging voltage and temperature



Temperature effects on floating life

