

## General features for MPE Series (Deep-cycle) 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.
- \* UL-recognized component.
- \* Long service life, float or cyclic applications.
- \* Maintenance-free operation.
- \* Low self discharge.
- \* Case and cover are available in both standard and flame retardant ABS (Standard : UL94V0).



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**MPE6-225 (6V225Ah)**

## Specifications

Nominal Voltage		6V
Rated capacity (20 hour rate)		225 Ah
Dimensions (±2mm)	Total Height	275 mm (10.83 inches)
	Height	275 mm (10.83 inches)
	Length	243mm (9.57 inches)
	Width	188mm (7.70 inches)
Weight Approx (±3%)		32.0 Kg (70.6 lbs)

## Battery picture and construction

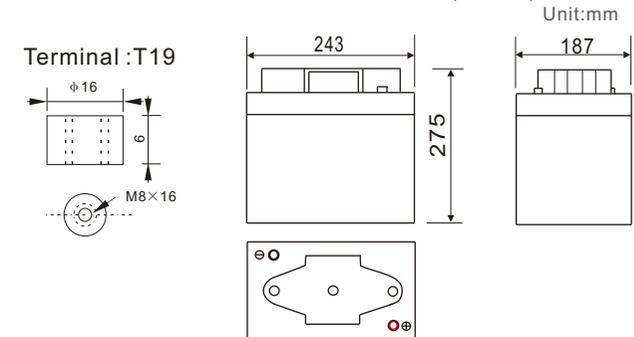


### Battery Construction

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

Outer dimensions(±2mm)



## Characteristics

Capacity 25°C(77°F)	20 hour rate(11.25 A,5.25V)	225Ah
	10 hour rate(20.9A,5.4V)	209Ah
	5 hour rate(33.5A,5.25V) 1 hour rate(126 A,4.8V)	167.5Ah 126 Ah
Internal Resistance	Full charged battery at 25°C(77°F)	Approx 2mΩ
Capacity affected by Temperature (20hour rate)	40°C (104°F)	102%
	25°C (77°F)	100%
	0°C (32°F) -15°C (5°F)	85% 65%
Remaining capacity Self-Discharge At 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	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	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Charge methods (constant Voltage) At 25°C(77°F)	Cycle use	Initial Charging Current less than 67.5 A Voltage 7.25-7.45V Temperature compensation:-15mV/°C
	Standby use	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

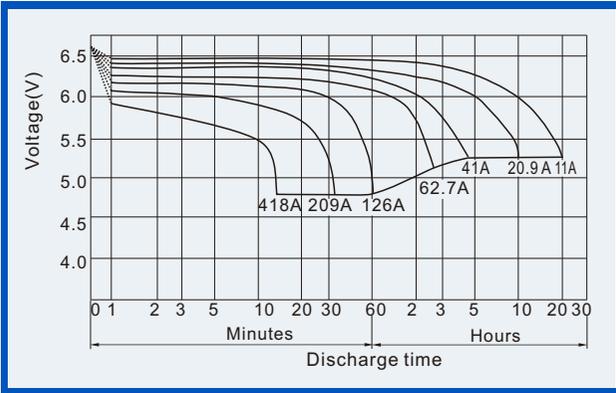
### Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
		4.80V	A	670	442	356	239	126	73.2	53.8	41.9	34.5	24.5
	W	6917	4715	3816	2565	1356	804	599	471	393	281	254	138
5.10V	A	649	398	335	228	118	69.9	52.3	40.8	33.9	23.9	21.6	11.5
	W	6932	4449	3751	2560	1335	806	606	474	395	279	253	135
5.25V	A	628	356	293	213	114	68.2	51.1	40.2	33.5	23.6	21.1	11.25
	W	6857	4054	3346	2456	1323	791	595	470	393	278	250	133
5.40V	A	605	336	272	197	110	66.5	49.8	39.5	32.6	23.0	20.9	11.0
	W	6790	3873	3139	2279	1286	779	587	467	386	273	249	131
5.55V	A	585	315	252	176	107	64.9	48.1	38.5	31.8	22.4	19.9	10.7
	W	6632	3644	2928	2057	1255	767	572	459	380	268	240	129

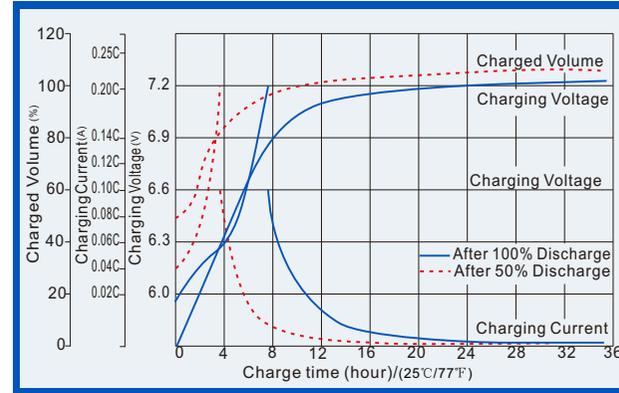
(Above characteristics data are average values obtained within three charge/discharge cycles,not the minimum values.)

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

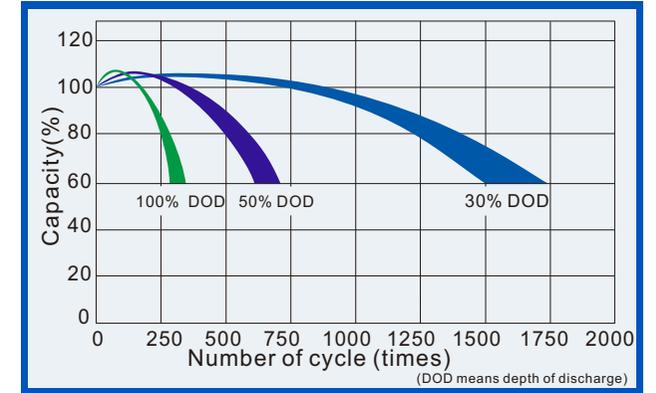
**Discharge characteristics (25°C, 77°F)**



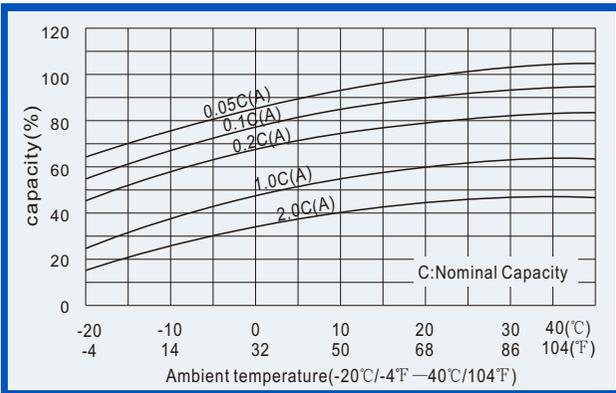
**Charge characteristics (25°C, 77°F)**



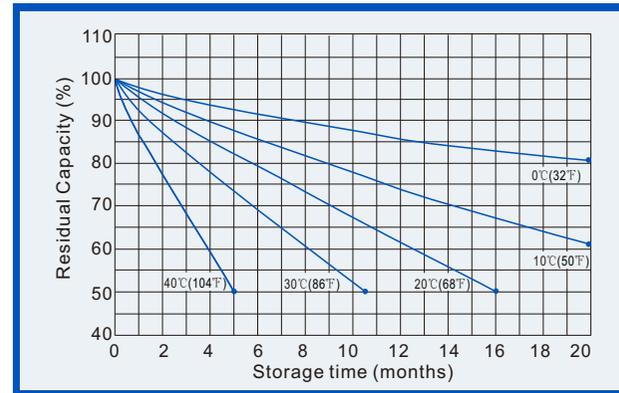
**Life characteristics of Cyclic Use (25°C, 77°F)**



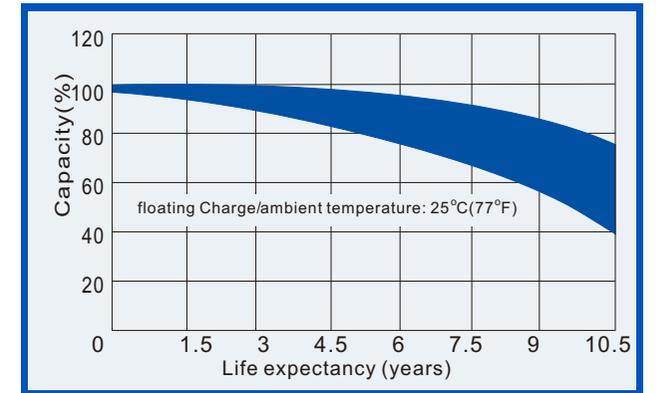
**Effect of Temperature on capacity**



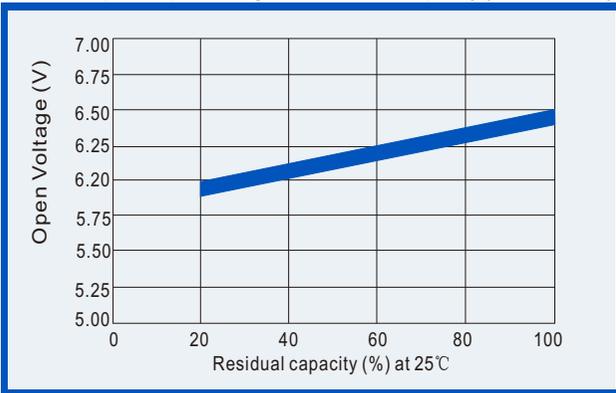
**Self-discharge characteristics**



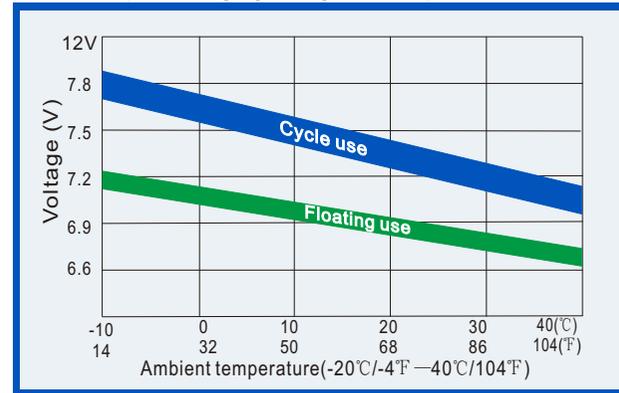
**Life Characteristics of standby use (25°C, 77°F)**



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



**Relationship for charging voltage and temperature**



**Temperature effects on floating life**

