

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

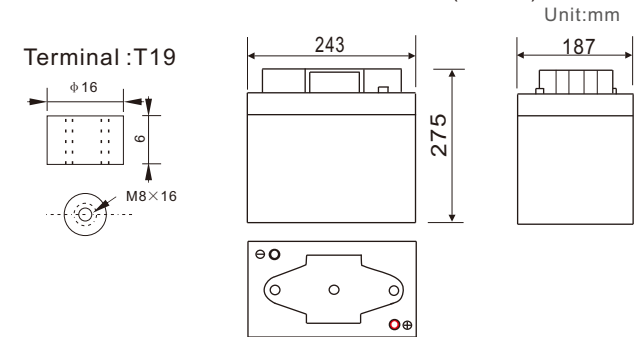


Battery Construction

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) 10 hour rate(20.9A,5.4V) 5 hour rate(33.5A,5.25V) 1 hour rate(126 A,4.8V)	225Ah 209Ah 167.5Ah 126 Ah
Internal Resistance	Full charged battery at 25°C(77°F)	Approx 1.7mΩ
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 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	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)

Unit:A

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

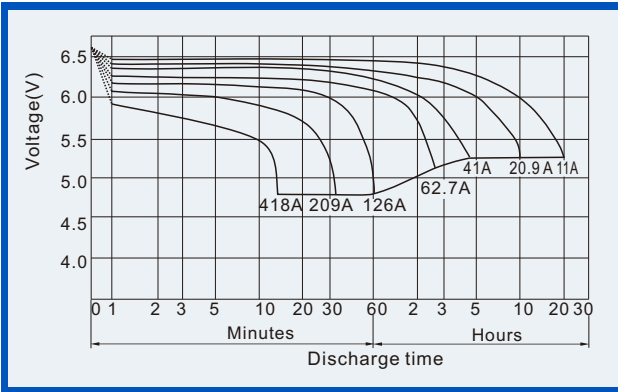
Unit:watts

Time	Unit:A												
	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	22.0	11.9
	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

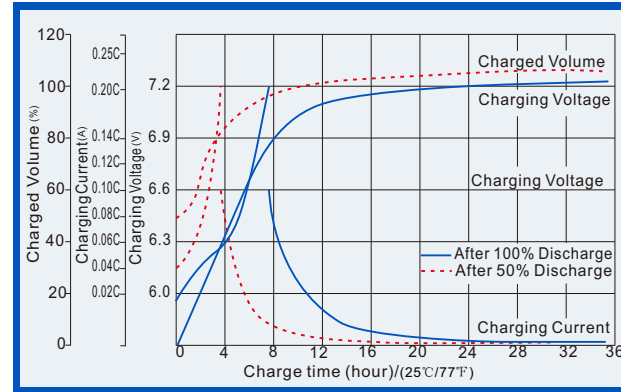
(Above characteristics data are average values obtained within three charge/discharge cycles,not the minimum values.)

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

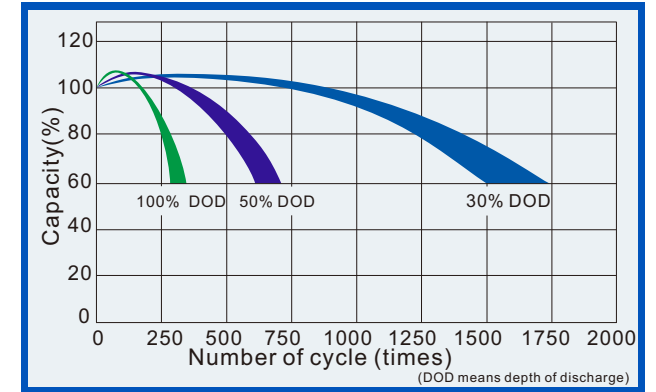
Discharge characteristics (25°C, 77°F)



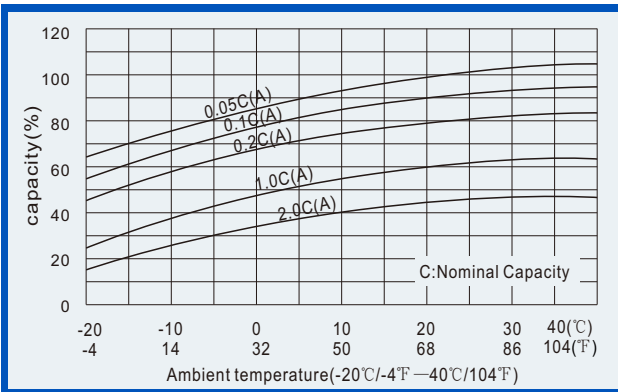
Charge characteristics (25°C, 77°F)



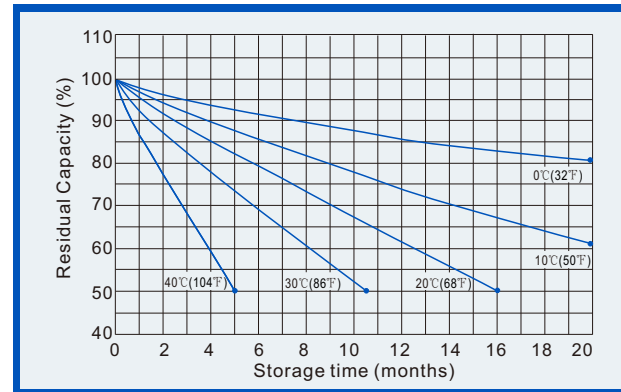
Life characteristics of Cyclic Use (25°C, 77°F)



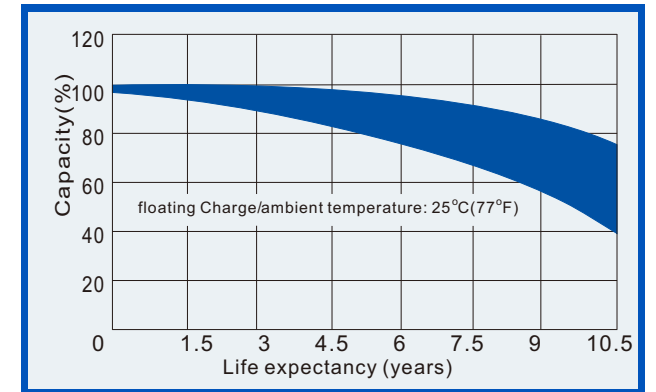
Effect of Temperature on capacity



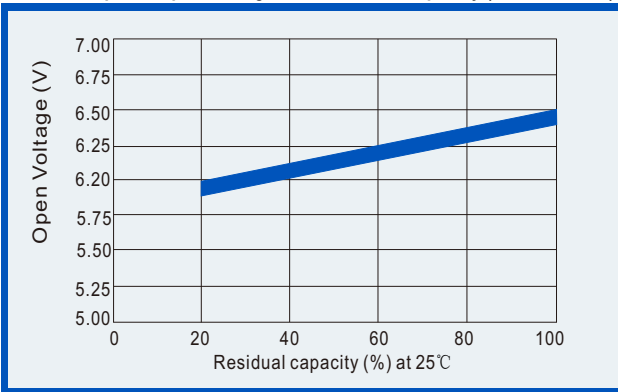
Self-discharge characteristics



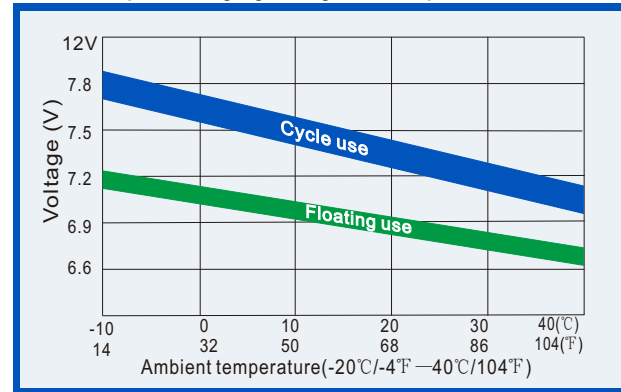
Life Characteristics of standby use (25°C, 77°F)



Relationships for open voltage and remained capacity (for reference)



Relationship for charging voltage and temperature



Temperature effects on floating life

