



● NPM General Series Battery

NPM General Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. NPM series Batteries are the general purpose batteries with 10 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.



● Application

- *Emergency Power System
- *Communication equipment
- *Telecommunication systems
- *Uninterruptible power supplies
- *Electric bicycle and wheelchairs, etc.
- *Power tools
- *Alarm system
- *Marine equipment
- *Fire and Security System

● General Features

- *Safety Sealing
- *Non-spillable construction
- *High Reliability and Stability
- *Sealed and Maintenance-free
- *Safety and Quality certification
- *Long Life and low self-discharge design

● Construction

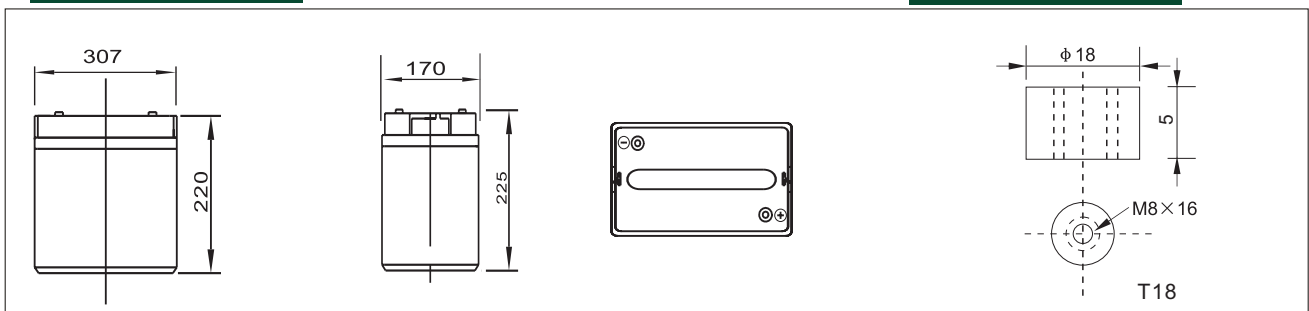
- *PositiveLead dioxide
- *ElectrolyteSulfuric acid
- *SeparatorFiber glass
- *ContainerABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- *NegativeLead
- *Safety ValveEPDR
- *TerminalCopper

● Specification

Battery Model	Nominal Voltage		6V	
	Rated capacity(10 Hour rate)		160Ah	
Dimensions	Length	Width	Height	Total Height
	307mm (12.09 inches)	170mm(6.69 inches)	220 mm(8.66 inches)	225 mm (8.86 inches)
Approx Weight	25kg(55.12lbs) ±3%			
Capacity 25°C (77°F)	10 hour rate(16A,5.4V)	5 Hour rate (25.6A,5.25V)	3 Hour rate (40A,5.1V)	1 Hour rate (96A,4.8V)
	160Ah	128Ah	120Ah	96Ah
Max.discharge current	1600A(5Sec.)			
Internal Resistance	Full charged at 25 °C (77°F): Approx 1.9 mΩ			
Capacity affected by Temp. (10 HR)	40°C (104 °F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge at 25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method 25°C (77°F)	Cycle Use		Float Use	
	7.20-7.40V (Initial charging current less than 64A)		6.75-6.90V	

● Outer dimensions (mm)

● Terminal Type (mm)

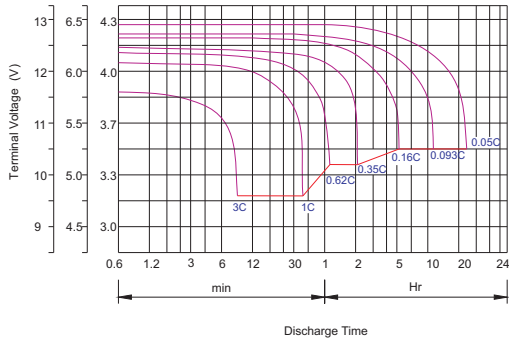


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

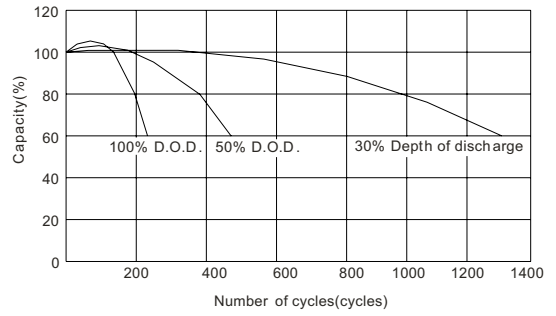
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
4.80V	A	512	338	272	182	96	56.0	41.1	32.0	26.4	18.7	16.8	9.1
	W	2644	1803	1459	981	518	307.0	229.0	180.0	150.0	107.0	97.0	52.7
5.10V	A	496	305	256	174	90	53.4	40.0	31.2	25.9	18.2	16.5	8.8
	W	2621	1701	1434	979	510	308.0	232.0	181.0	151.0	107.0	97.0	51.6
5.25V	A	435	272	224	163	87	52.2	39.0	30.7	25.6	18.1	16.2	8.8
	W	2374	1550	1279	939	506	302.0	227.0	180.0	150.0	106.0	96.0	52.0
5.40V	A	393	257	208	150	84	50.9	38.1	30.2	25.0	17.6	16.0	8.64
	W	2204	1481	1200	871	492	298.0	224.0	179.0	148.0	104.0	95.0	51.5
5.55V	A	282	241	192	134	82	49.6	36.8	29.4	24.3	17.1	15.2	8.16
	W	1600	1393	1119	786	480	293.0	219.0	175.0	145.0	103.0	92.0	49.4



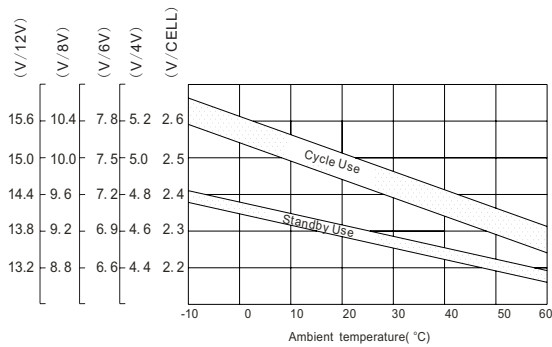
Discharge characteristic Curve



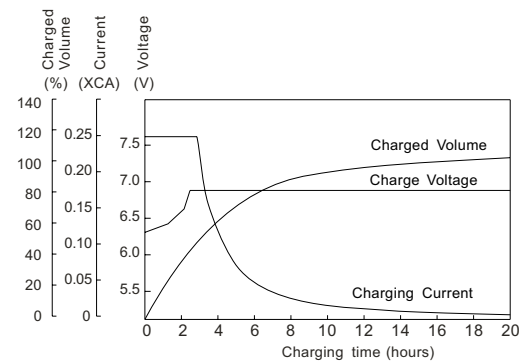
Cycle service life in relation to depth of discharge



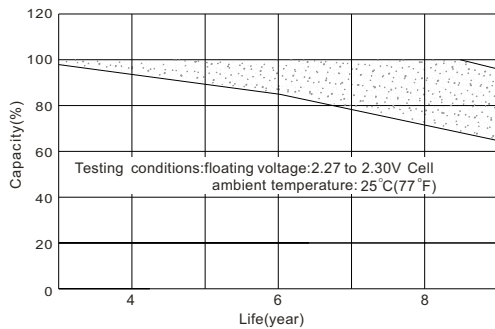
Relationship between charging voltage and temperature



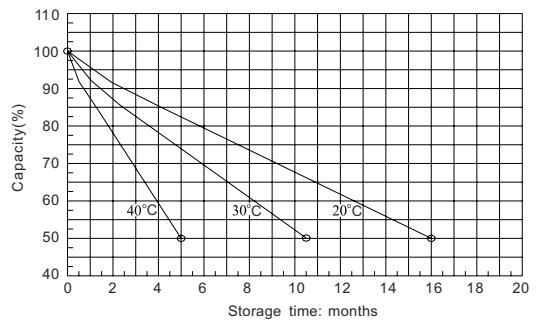
Constant voltage charging characteristic (0.25CA, at 25°C)



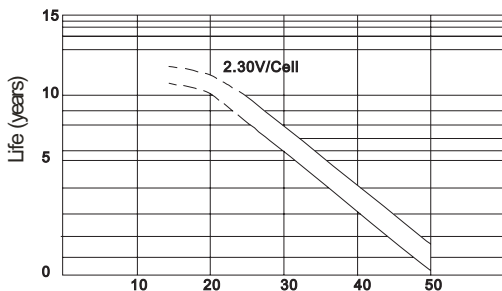
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

