



● 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

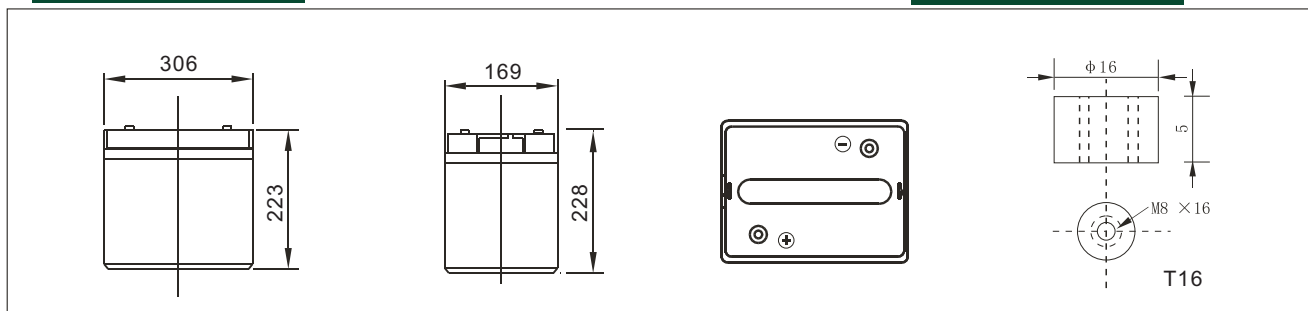
- *PositiveLead dioxide
- *ElectrolyteSulfuric acid
- *SeparatorFiber glass
- *ContainerABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- *NegativeLead
- *Safety ValveEPDR
- *TerminalCopper

● Specification

Battery Model	Nominal Voltage		6V	
	Rated capacity (10 Hour rate)		190Ah	
Dimensions	Length	Width	Height	Total Height
	306mm (12.05 inches)	169mm(6.65 inches)	223mm(8.78 inches)	228mm (8.98inches)
Approx Weight	28.0kg(61.74lbs) ±3%			
Capacity 25°C(77°F)	10 hour rate (19A,5.4V)	5 Hour rate(30.4A,5.25V)	3 Hour rate(47.5A,5.1V)	1 Hour rate (114A,4.8V)
	190Ah	152Ah	142.5Ah	114Ah
Max.discharge current	1900A(5sec.)			
Internal Resistance	Full charged at 25 °C (77°F): Approx 1.0 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	
	7.05-7.20V (Initial charging current less than 76A)		6.75-6.90V	

● Outer dimensions (mm)

● Terminal Type (mm)

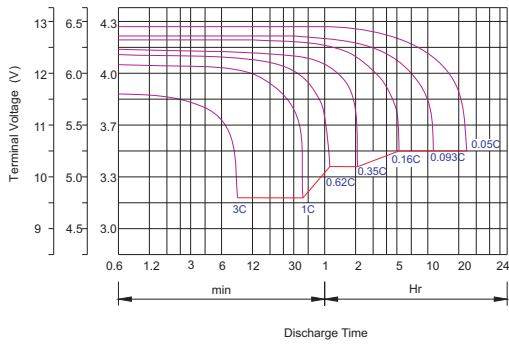


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

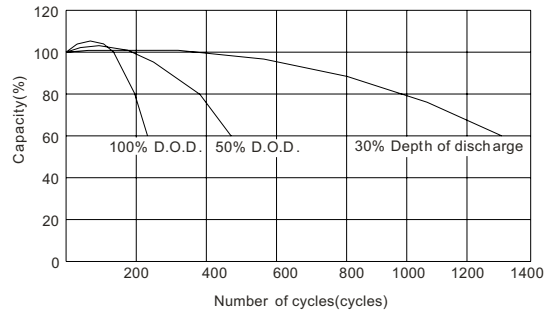
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
4.80V	A	609	401	323	217	114.0	66.5	48.8	38.0	31.4	22.2	20.0	10.8
	W	3140	2141	1733	1164	615.6	365.1	271.7	213.8	178.2	127.4	115.2	62.6
5.10V	A	589	362	304	207	107.2	63.5	47.5	37.1	30.8	21.7	19.6	10.5
	W	3147	2020	1703	1162	606.0	365.7	275.0	215.4	179.4	126.7	115.0	61.3
5.25V	A	570	324	266	194	103.7	61.9	46.4	36.5	30.4	21.5	19.2	10.5
	W	3113	1840	1519	1115	600.7	359.2	270.1	213.4	178.2	126.2	113.5	61.8
5.40V	A	549	305	247	179	100.3	60.4	45.2	35.9	29.6	20.9	19.0	10.3
	W	3083	1758	1425	1035	583.9	353.8	266.6	212.0	175.2	123.8	112.9	61.1
5.55V	A	531	286	228	160	96.9	58.9	43.7	35.0	28.9	20.3	18.1	9.7
	W	3011	1655	1329	934	569.8	348.1	259.6	208.2	172.3	121.7	108.9	58.7



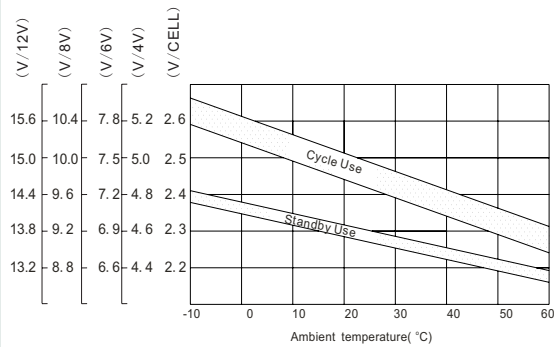
Discharge characteristic Curve



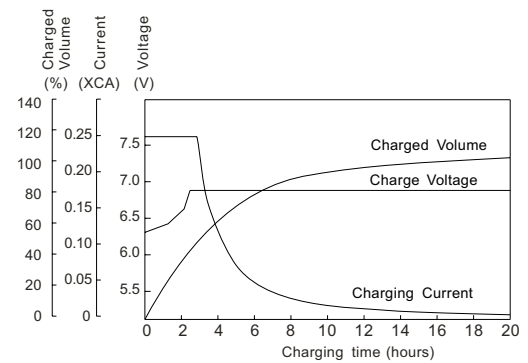
Cycle service life in relation to depth of discharge



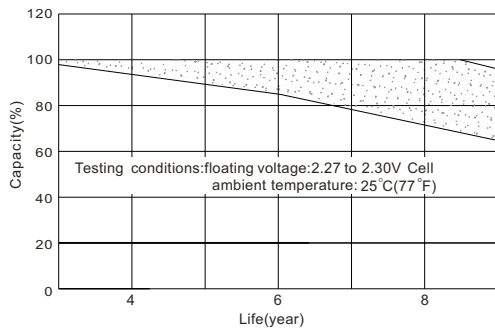
Relationship between charging voltage and temperature



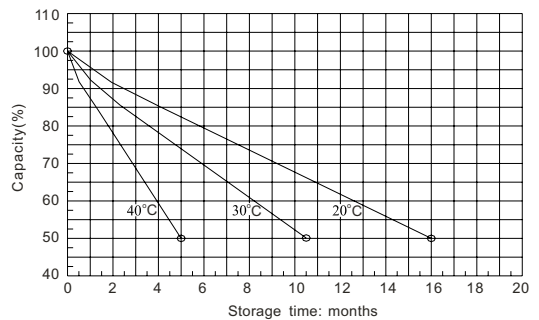
Constant voltage charging characteristic (0.25CA, at 25°C)



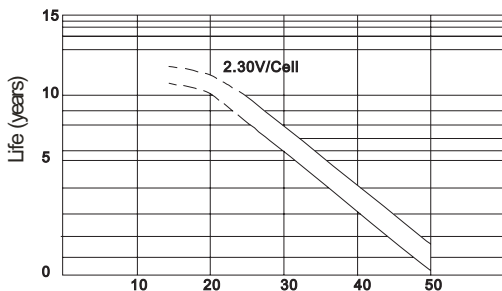
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

