



● 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

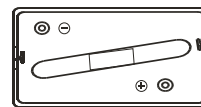
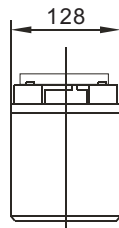
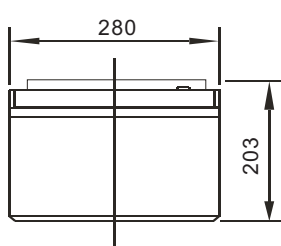
● Construction

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

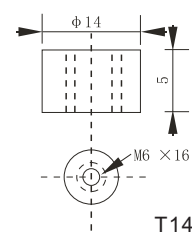
● Specification

Battery Model	Nominal Voltage		6V	
	Rated capacity(10 Hour rate)		105Ah	
Dimensions	Length		Width	Height
	280mm (11.02 inches)		128mm(5.04 inches)	203mm(7.99 inches)
Total Height	203mm (7.99inches)T16			
	Approx Weight 18.5kg(40.79lbs) ±3%			
Capacity 25 °C(77°F)	10 hour rate (10.5A,5.4V)	5 Hour rate (16.8A,5.25V)	3 Hour rate (26.3A,5.1V)	1 Hour rate (63.0A,4.8V)
	105Ah	84.0Ah	78.9Ah	63Ah
Max. discharge current	1050A(5Sec.)			
Internal Resistance	Full charged at 25 °C (77°F): Approx 2.1 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 42A)		6.75-6.90V	

● Outer dimensions (mm)



● Terminal Type (mm)

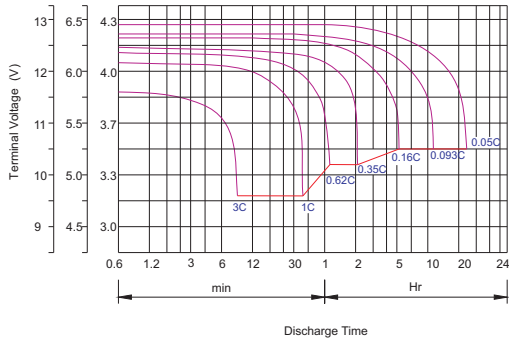


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

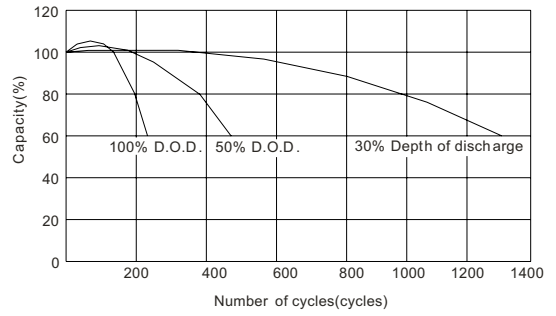
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
4.80V	A	336	222	179	120	63.0	36.8	27.0	21.0	17.3	12.3	11.0	6.0
	W	1735	1183	958	644	340.2	201.8	150.2	118.1	98.5	70.4	63.7	34.6
5.10V	A	326	200	168	114	59.2	35.1	26.3	20.5	17.0	12.0	10.8	5.8
	W	1739	1116	941	642	334.9	202.1	152.0	119.0	99.2	70.0	63.5	33.9
5.25V	A	315	179	147	107	57.3	34.2	25.6	20.2	16.8	11.9	10.6	5.8
	W	1720	1017	839	616	331.9	198.5	149.3	117.9	98.5	69.8	62.7	34.1
5.40V	A	304	169	137	99	55.4	33.4	25.0	19.8	16.4	11.6	10.5	5.7
	W	1704	972	787	572	322.7	195.5	147.3	117.2	96.8	68.4	62.4	33.8
5.55V	A	293	158	126	88	53.6	32.6	24.2	19.3	16.0	11.2	10.0	5.4
	W	1664	914	735	516	314.9	192.4	143.5	115.1	95.2	67.3	60.2	32.5



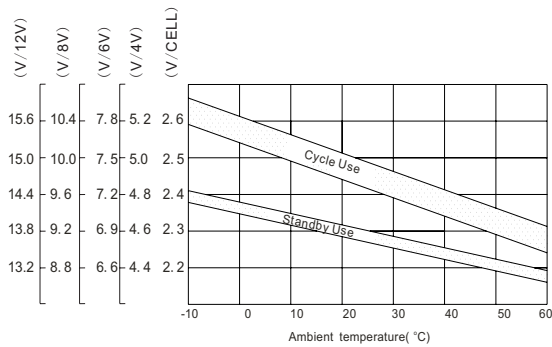
Discharge characteristic Curve



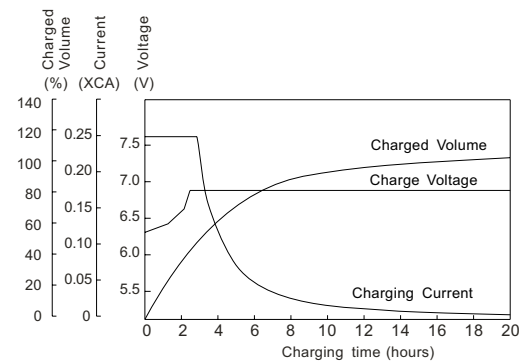
Cycle service life in relation to depth of discharge



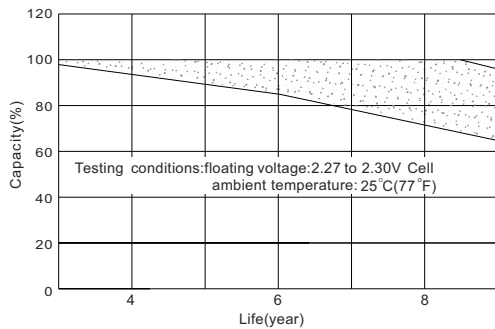
Relationship between charging voltage and temperature



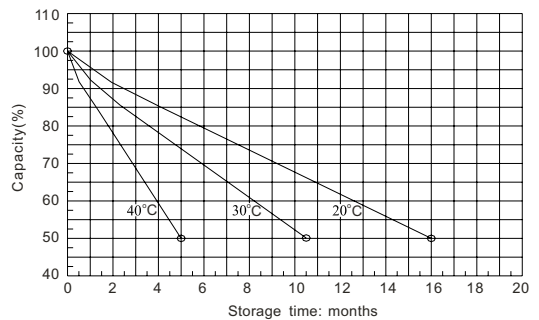
Constant voltage charging characteristic (0.25CA, at 25°C)



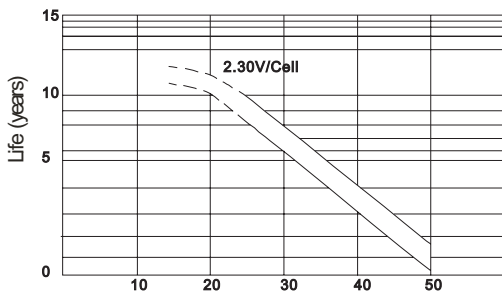
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

