



**● 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**

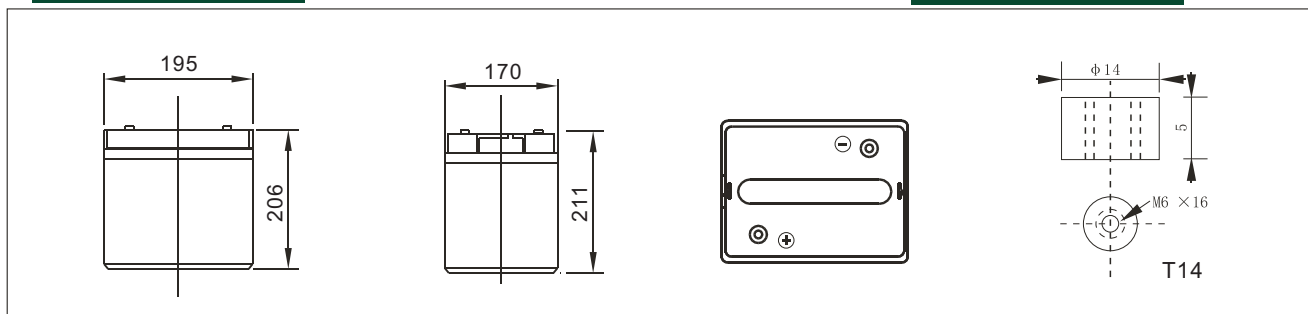
- \*Positive .....Lead dioxide
- \*Electrolyte .....Sulfuric acid
- \*Separator .....Fiber glass
- \*Container .....ABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- \*Negative .....Lead
- \*Safety Valve .....EPDR
- \*Terminal .....Copper

**● Specification**

Battery Model	Nominal Voltage		6V	
	Rated capacity(10 Hour rate)		120Ah	
Dimensions	Length	Width	Height	Total Height
	195mm (7.68 inches)	170mm(6.69 inches)	206mm(8.11 inches)	211mm (8.31inches) T16
Approx Weight	19.0kg(41.90lbs) ±3%			
Capacity 25°C (77°F)	10 hour rate (12.0A,5.4V)	5Hour rate(19.2A,5.25V)	3 Hour rate (30A,5.1V)	1 Hour rate (72A,4.8V)
	120Ah	96Ah	90Ah	72Ah
Max.discharge current	1200A(5Sec.)			
Internal Resistance	Full charged at 25 °C (77°F): Approx 2.0 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 48A)		6.75-6.90V	

**● Outer dimensions (mm)**

**● Terminal Type (mm)**

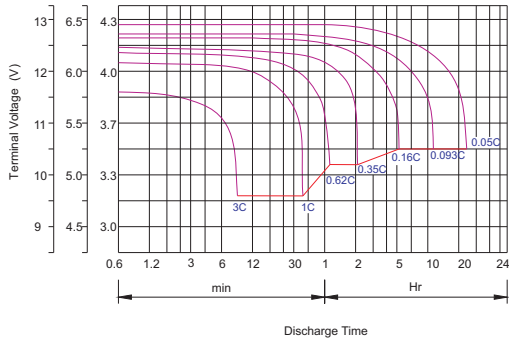


**Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)**

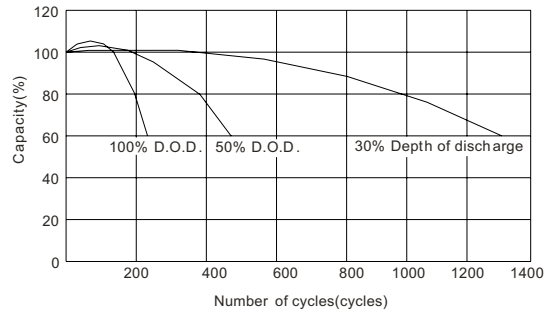
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
4.80V	A	384	253	204	137	72.0	42.0	30.8	24.0	19.8	14.0	12.6	6.8
	W	1983	1352	1094	735	388.8	230.6	171.6	135.0	112.6	80.4	72.8	39.6
5.10V	A	372	228	192	131	67.7	40.1	30.0	23.4	19.4	13.7	12.4	6.6
	W	1988	1276	1076	734	382.7	231.0	173.7	136.0	113.3	80.0	72.6	38.7
5.25V	A	360	204	168	122	65.5	39.1	29.3	23.0	19.2	13.6	12.1	6.6
	W	1966	1162	959	704	379.4	226.9	170.6	134.8	112.6	79.7	71.7	39.0
5.40V	A	347	193	156	113	63.4	38.2	28.6	22.7	18.7	13.2	12.0	6.5
	W	1947	1111	900	653	368.8	223.5	168.4	133.9	110.6	78.2	71.3	38.6
5.55V	A	335	180	144	101	61.2	37.2	27.6	22.1	18.2	12.8	11.4	6.1
	W	1902	1045	839	590	359.9	219.9	163.9	131.5	108.8	76.9	68.8	37.1



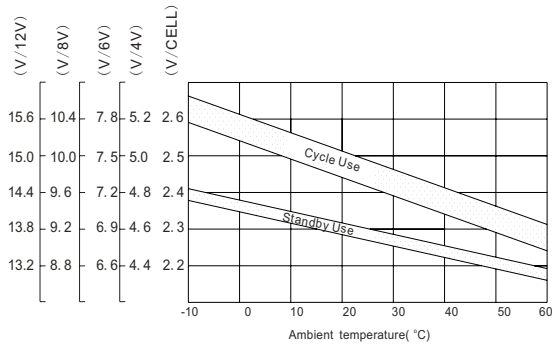
**Discharge characteristic Curve**



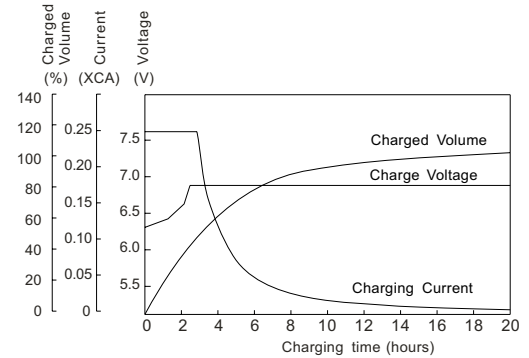
**Cycle service life in relation to depth of discharge**



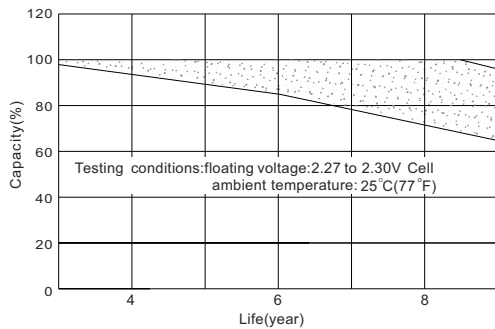
**Relationship between charging voltage and temperature**



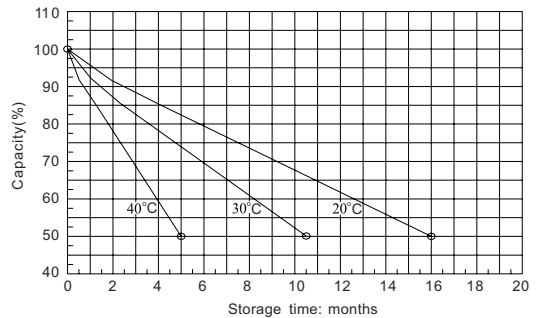
**Constant voltage charging characteristic (0.25CA, at 25°C)**



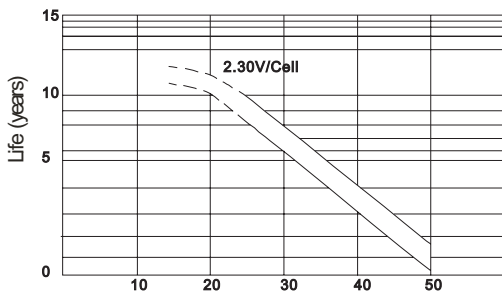
**Life characteristics of standby use**



**Self-discharge characteristic**



**Temperature effects on float life**



**Charge characteristic Curve for standby use**

