NAPEL POWER NPM61800 (6V180Ah)

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℃. 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

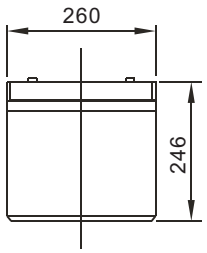
Construction

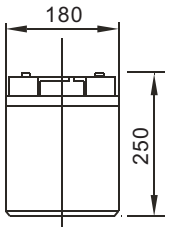
*Positive .....Lead dioxide
*Electrolyte .....Sulfuric acid
*Separator .....Fiber glass
*Container .....ABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
*Negative .....Lead
*Safety Valve .....EPDR
*Terminal .....Copper

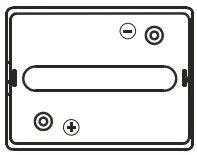
Specification

Battery Model	Nominal Voltage	6V		
	Rated capacity(10 Hour rate)	180Ah		
Dimensions	Length	Width	Height	Total Height
	260mm (10.24 inches)	180mm(7.09 inches)	246mm(9.69 inches)	250mm (9.84inches)
Approx Weight	29.0kg(63.93lbs) ±3%			
Capacity 25℃ (77℉)	10 hour rate (18A,5.4V)	5 hour rate(28.8A,5.25V)	3hour rate (45A,5.1V)	1 hour rate (108A,4.8V)
	180Ah	144Ah	135Ah	108Ah
Max.discharge current	1800A(5Sec.)			
Internal Resistance	Full charged at 25 ℃ (77℉): Approx 1.5 mΩ			
Capacity affected by Temp. (10 HR)	40℃ (104 ℉)	25℃ (77℉)	0℃ (32℉)	-15℃ (5℉)
	102%	100%	85%	65%
Self Discharge at 25℃ (77℉)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method 25℃ (77℉)	Cycle Use		Float Use	
	7.05-7.20V (Initial charging current less than 72A)		6.75-6.90V	

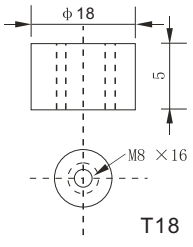
Outer dimensions (mm)







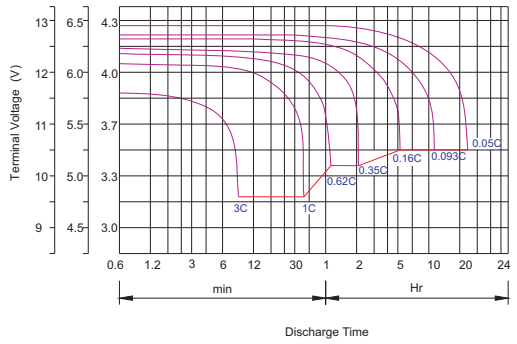
Terminal Type (mm)



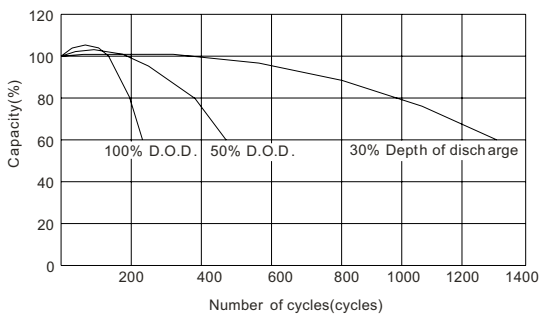
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃ (77℉)

Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
4.80V	A	577	380	306	205	108.0	63.0	46.3	36.0	29.7	21.1	18.9	10.2
	W	2975	2028	1641	1103	583.2	345.9	257.4	202.5	168.8	120.7	109.1	59.3
5.10V	A	558	343	288	196	101.5	60.1	45.0	35.1	29.2	20.5	18.5	9.9
	W	2982	1913	1613	1101	574.1	346.5	260.6	204.1	170.0	120.0	108.9	58.1
5.25V	A	540	307	252	184	98.3	58.7	43.9	34.6	28.8	20.3	18.2	9.9
	W	2949	1744	1439	1056	569.0	340.3	255.9	202.2	168.8	119.6	107.6	58.5
5.40V	A	521	289	234	169	95.0	57.2	42.8	34.0	28.1	19.8	18.0	9.7
	W	2920	1666	1350	980	553.1	335.2	252.5	200.9	166.0	117.3	107.0	57.9
5.55V	A	503	271	216	151	91.8	55.8	41.4	33.1	27.4	19.3	17.1	9.2
	W	2853	1567	1259	885	539.8	329.8	245.9	197.2	163.3	115.3	103.2	55.6

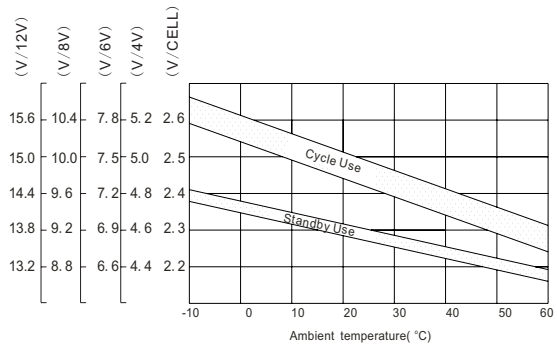
Discharge characteristic Curve



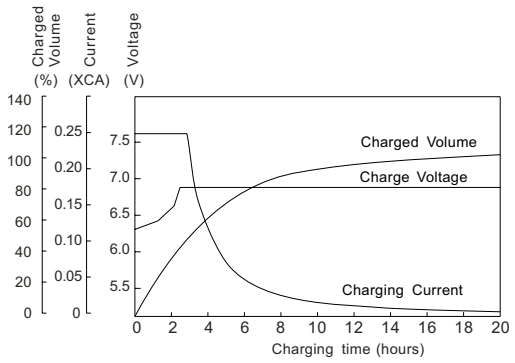
Cycle service life in relation to depth of discharge



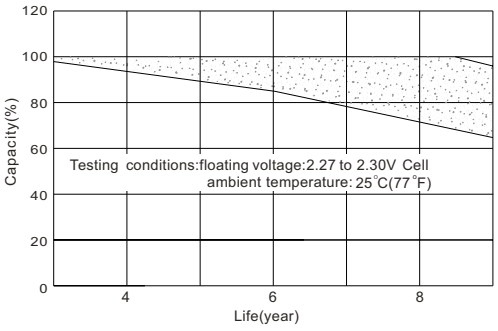
Relationship between charging voltage and temperature



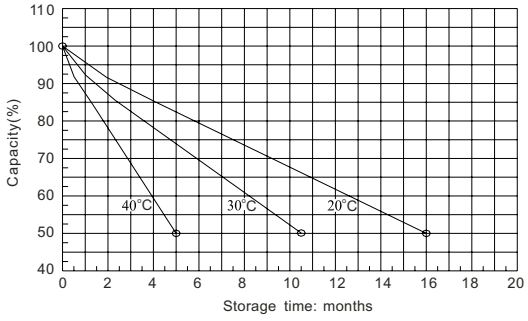
Constant voltage charging characteristic (0.25CA, at 25℃)



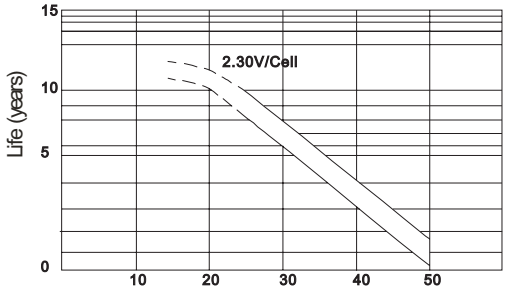
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use