NAPEL POWER NPL218000 (2V1800Ah)

NPL General Series Battery

NPL 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. NPL series Batteries are the general purpose batteries with 18 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
*Solar power and wind power systems, etc.
*Power tools
*Power station
*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

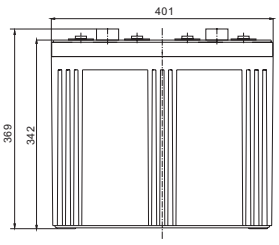
Construction

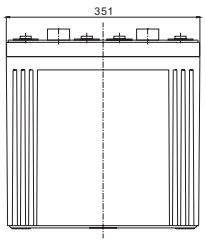
*Positive .....Lead dioxide
*Electrolyte .....Sulfuric acid
*Separator .....Fiber glass
*Container .....ABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
*Negative .....Lead
*Safety Valve .....EPDR
*Terminal .....Copper

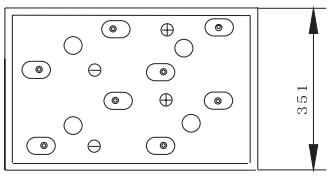
Specification

Battery Model	Nominal Voltage	2V		
	Rated capacity(10 Hour rate)	1800Ah		
Dimensions	Length	Width	Height	Total Height
	401mm (15.79 inches)	351mm(13.82 inches)	342mm(13.46 inches)	369mm (14.53 inches)
Approx Weight	120kg(264.55lbs) ±3%			
Capacity 25℃ (77℉)	10 Hour rate (180A,1.8V)	5 Hour rate (280A,1.75V)	3 Hour rate (437.5A,1.7V)	1 Hour rate (1050A,1.6V)
	1800Ah	1400Ah	1312.5Ah	1050Ah
Max. discharge current	3600A(5Sec.)			
Internal Resistance	Full charged at 25 ℃ (77℉): Approx 0.4mΩ			
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	
	2.35-2.40V (Initial charging current less than 720A)		2.25-2.30V	

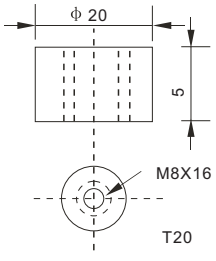
Outer dimensions (mm)







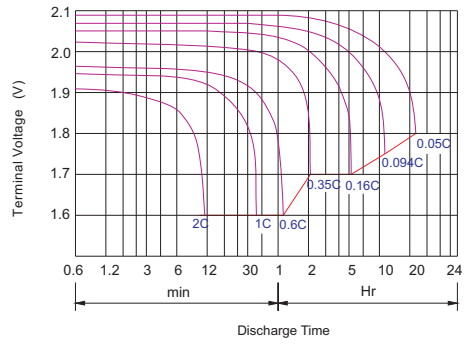
Terminal Type (mm)



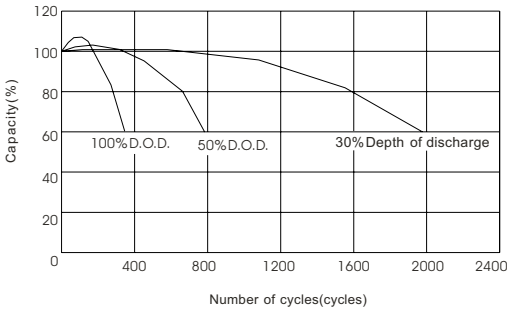
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃ (77℉)

Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	5605	3693	2977	1995	1050.0	612.5	449.8	350.0	288.8	204.8	183.8	99.0
	W	9641	6573	5319	3575	1890.0	1121.0	834.3	656.3	547.2	391.1	353.7	192.0
1.70V	A	5429	3332	2804	1908	987.0	584.5	437.5	341.3	283.5	199.5	180.3	96.3
	W	9663	6201	5229	3569	1860.0	1123.0	844.4	661.3	550.8	389.0	352.9	188.2
1.75V	A	5252	2980	2452	1785	956.0	570.5	427.0	336.0	280.0	197.8	176.8	96.3
	W	9558	5651	4663	3424	1844.0	1103.0	829.2	655.2	547.1	387.6	348.6	189.6
1.80V	A	5061	2809	2279	1645	924.0	556.5	416.5	330.8	273.0	192.5	175.0	94.5
	W	9464	5389	4375	3176	1793.0	1086.0	818.4	650.9	537.8	380.2	346.7	187.6
1.85V	A	4891	2632	2104	1470	893.0	542.5	402.5	322.0	266.0	187.3	166.3	89.3
	W	9244	5080	4081	2867	1749.0	1069.0	797.0	639.2	529.1	373.8	334.5	180.3

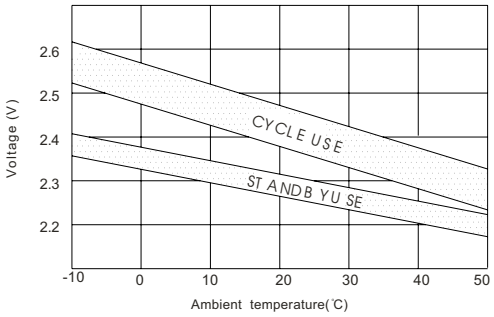
Discharge characteristic Curve



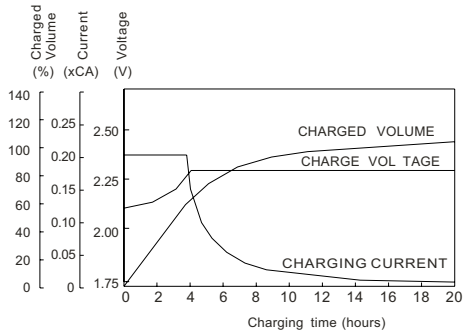
Cycle service life in relation to depth of discharge



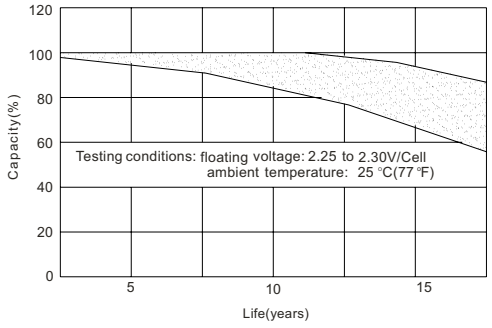
Relationship between charging voltage and temperature



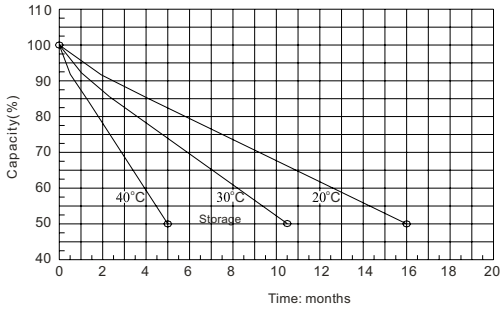
Constant voltage charging characteristic (0.25CA, at 25 C)°



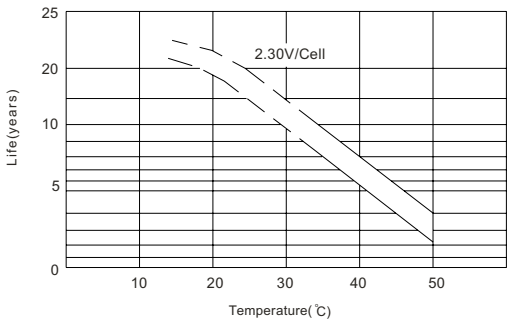
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use