NAPEL POWER NPL25500 (2V550Ah)

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

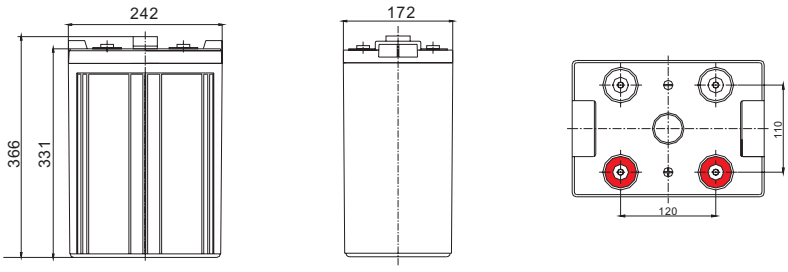
Construction

*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

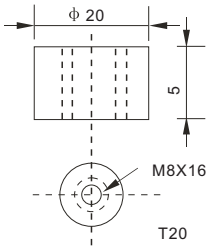
Specification

Battery Model	Nominal Voltage	2V		
	Rated capacity(10 Hour rate)	550Ah		
Dimensions	Length	Width	Height	Total Height
	242mm (9.53 inches)	172mm(6.77 inches)	331mm(13.03 inches)	366mm (14.41 inches)
Approx Weight	33.30kg(73.43lbs) ±3%			
Capacity 25℃ (77℉)	10 Hour rate (55A,1.8V)	5 Hour rate (88A,1.75V)	3 Hour rate (137.5A,1.7V)	1 Hour rate (330A,1.6V)
	550Ah	440Ah	412.5Ah	330Ah
Max.discharge current	1650A(5Sec.)			
Internal Resistance	Full charged at 25 ℃ (77℉): Approx 0.36mΩ			
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 220A)		2.25-2.30V	

Outer dimensions (mm)



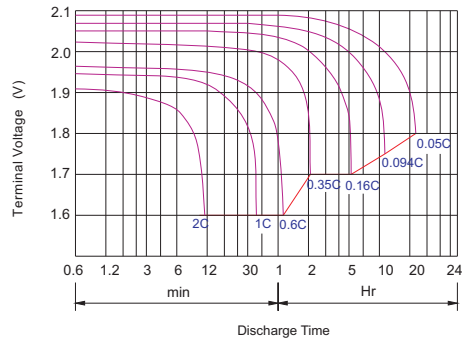
Terminal Type (mm)



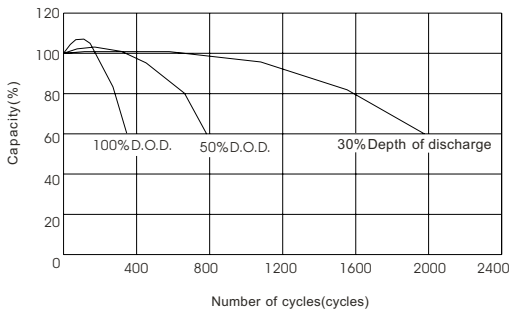
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃(77℉)

Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	1762	1161	936	627	330.0	192.5	141.4	110.0	90.8	64.4	57.8	31.2
	W	3030	2066	1672	1124	594.0	352.3	262.2	206.3	172.0	122.9	111.2	60.4
1.70V	A	1706	1047	881	600	310.2	183.7	137.5	107.3	89.1	62.7	56.7	30.3
	W	3037	1949	1643	1122	584.7	352.9	265.4	207.9	173.1	122.3	110.9	59.1
1.75V	A	1651	937	771	561	300.3	179.3	134.2	105.6	88.0	62.2	55.6	30.3
	W	3004	1776	1466	1076	579.6	346.6	260.6	205.9	172.0	121.8	109.5	59.6
1.80V	A	1591	883	716	517	290.4	174.9	130.9	104.0	85.8	60.5	55.0	29.7
	W	2974	1697	1375	998	563.4	341.4	257.2	204.6	169.0	119.5	109.0	59.0
1.85V	A	1537	827	661	462	280.5	170.5	126.5	101.2	83.6	58.9	52.3	28.1
	W	2905	1596	1283	901	549.8	335.9	250.5	200.9	166.3	117.5	105.1	56.7

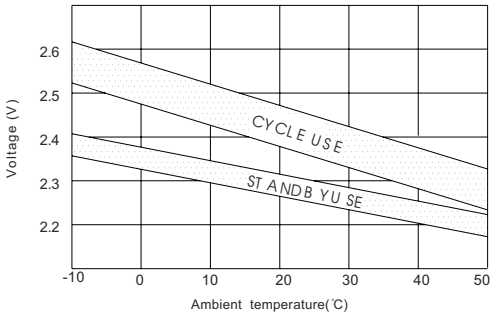
Discharge characteristic Curve



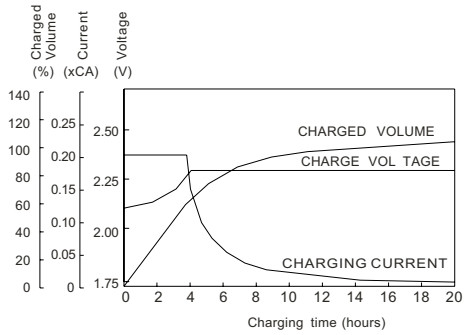
Cycle service life in relation to depth of discharg



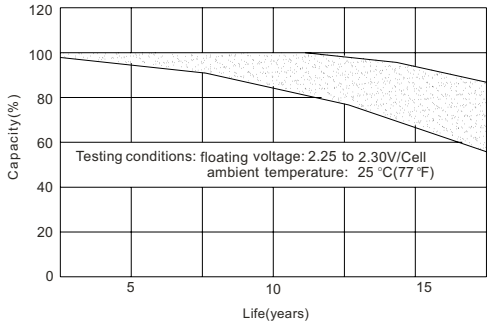
Relationship between charging voltage and temp



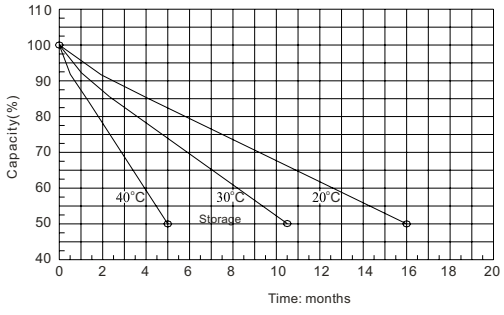
Constant voltage charging characteristic (0.25CA, c



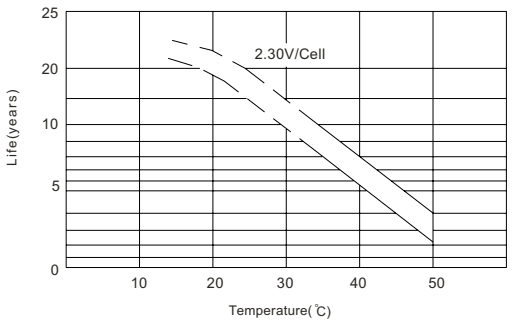
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use