NAPEL POWER NPL225000 (2V2500Ah)

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

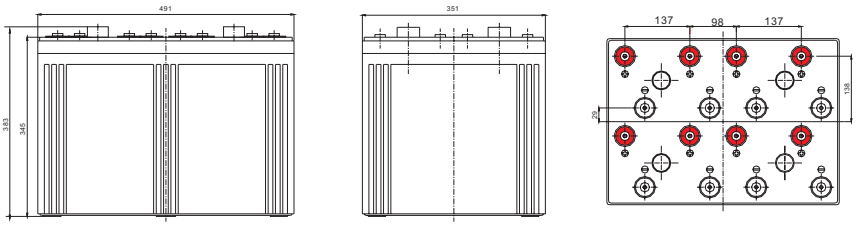
Construction

*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

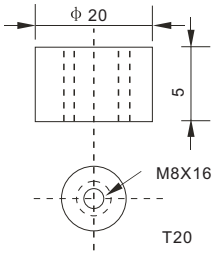
Specification

Battery Model	Nominal Voltage	2V		
	Rated capacity(10 Hour rate)	2500Ah		
Dimensions	Length	Width	Height	Total Height
	491mm (19.33 inches)	351mm(13.82 inches)	345mm(13.58 inches)	383mm (15.08 inches)
Approx Weight	165.00kg(363.76lbs) ±3%			
Capacity 25℃ (77℉)	10 Hour rate (250A,1.8V)	5 Hour rate (400A,1.75V)	3 Hour rate (625A,1.7V)	1 Hour rate (1500A,1.6V)
	2500Ah	2000Ah	1875Ah	1500Ah
Max.discharge current	5000A(5Sec.)			
Internal Resistance	Full charged at 25 ℃ (77℉): Approx 0.25mΩ			
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 1000A)		2.25-2.30V	

Outer dimensions (mm)



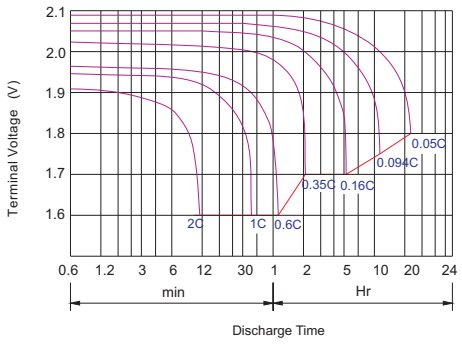
Terminal Type (mm)



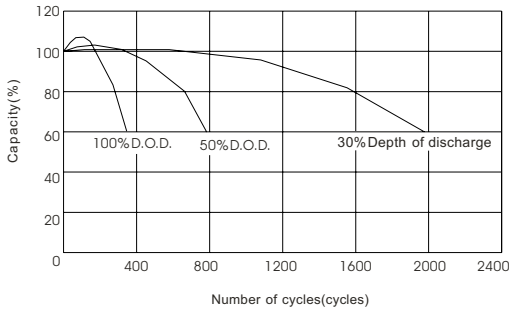
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃(77℉)

Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	8008	5275	4253	2850	1500.0	875.0	642.5	500.0	412.5	292.5	262.5	141.8
	W	13773	9390	7599	5107	2700.0	1601.3	1191.8	937.5	781.7	558.7	505.3	274.7
1.70V	A	7755	4760	4005	2725	1410.0	835.0	625.0	487.5	405.0	285.0	257.5	137.5
	W	13804	8858	7469	5098	2657.9	1604.0	1206.3	944.8	786.9	555.8	504.2	268.8
1.75V	A	7503	4258	3503	2550	1365.0	815.0	610.0	480.0	400.0	282.5	252.5	137.5
	W	13655	8072	6662	4891	2634.5	1575.4	1184.6	936.0	781.6	553.7	497.9	270.9
1.80V	A	7230	4013	3255	2350	1320.0	795.0	595.0	472.5	390.0	275.0	250.0	135.0
	W	13520	7712	6250	4538	2560.8	1551.8	1169.2	929.9	768.3	543.1	495.3	268.0
1.85V	A	6988	3760	3005	2100	1275.0	775.0	575.0	460.0	380.0	267.5	237.5	127.5
	W	13206	7257	5830	4095	2499.0	1526.8	1138.5	913.1	755.8	533.9	477.9	257.6

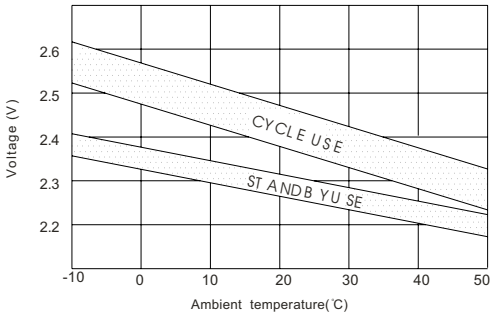
Discharge characteristic Curve



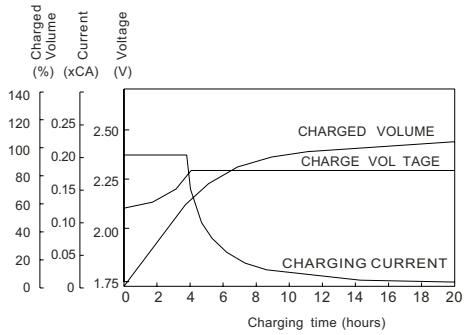
Cycle service life in relation to depth of discharge



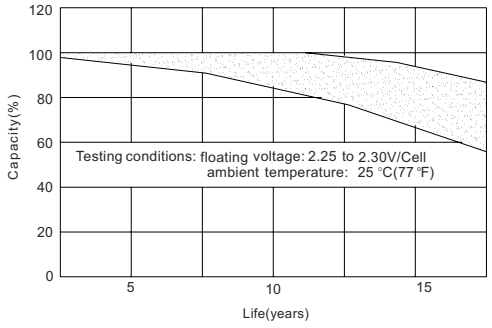
Relationship between charging voltage and temperature



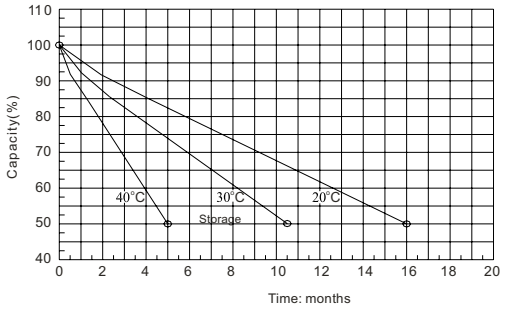
Constant voltage charging characteristic (0.25CA, at 25 C)°



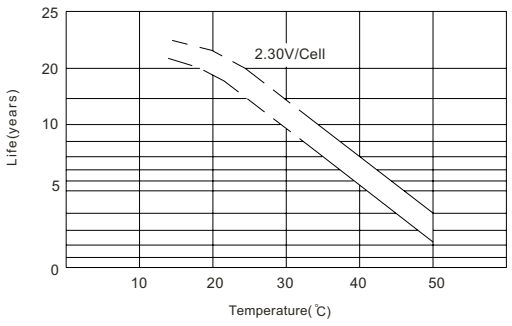
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use