NAPEL POWER NPL28000 (2V800Ah)

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

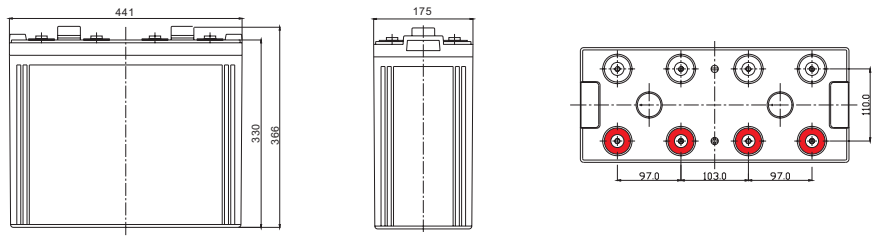
Construction

*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

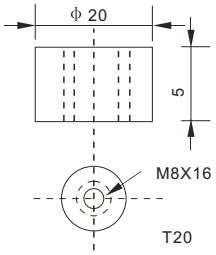
Specification

Battery Model	Nominal Voltage	2V		
	Rated capacity(10 Hour rate)	800Ah		
Dimensions	Length	Width	Height	Total Height
	441mm (17.36 inches)	175mm(6.89 inches)	330mm(12.99 inches)	366mm (14.41 inches)
Approx Weight	53.00kg(116.84lbs) ±3%			
Capacity 25℃ (77℉)	10 Hour rate (80A,1.8V)	5 Hour rate (128A,1.75V)	3 Hour rate (200A,1.7V)	1 Hour rate (480A,1.6V)
	800Ah	640Ah	600Ah	480Ah
Max.discharge current	2400A(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 320A)		2.25-2.30V	

Outer dimensions (mm)



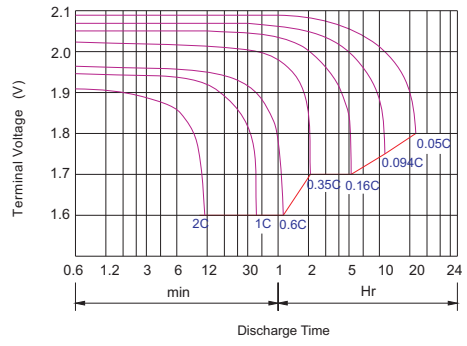
Terminal Type (mm)



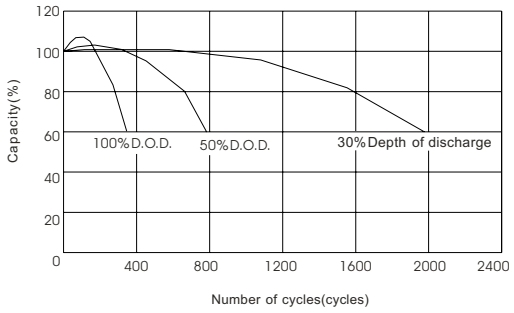
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃(77℉)

Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	2562	1688	1361	912	480.0	280.0	205.6	160.0	132.0	93.6	84.0	45.4
	W	4407	3005	2432	1634	864.0	512.4	381.4	300.0	250.1	178.8	161.7	87.9
1.70V	A	2482	1523	1282	872	451.2	267.2	200.0	156.0	129.6	91.2	82.4	44.0
	W	4417	2835	2390	1632	850.5	513.3	386.0	302.3	251.8	177.8	161.3	86.0
1.75V	A	2401	1362	1121	816	436.8	260.8	195.2	153.6	128.0	90.4	80.8	44.0
	W	4369	2583	2132	1565	843.0	504.1	379.1	299.5	250.1	177.2	159.3	86.7
1.80V	A	2314	1284	1042	752	422.4	254.4	190.4	151.2	124.8	88.0	80.0	43.2
	W	4326	2468	2000	1452	819.5	496.6	374.1	297.6	245.9	173.8	158.5	85.8
1.85V	A	2236	1203	962	672	408.0	248.0	184.0	147.2	121.6	85.6	76.0	40.8
	W	4226	2322	1866	1310	799.7	488.6	364.3	292.2	241.9	170.9	152.9	82.4

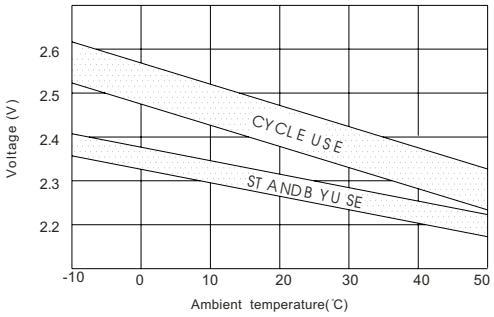
Discharge characteristic Curve



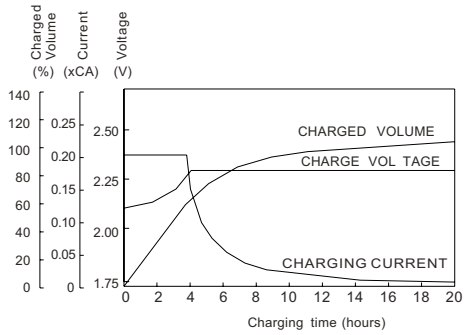
Cycle service life in relation to depth of discharge



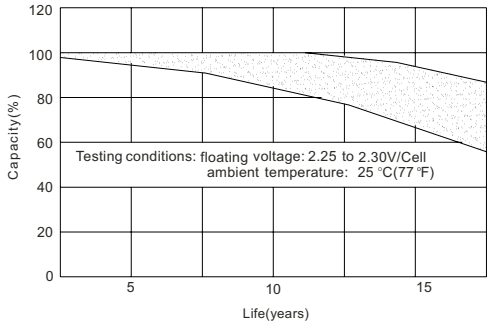
Relationship between charging voltage and temperature



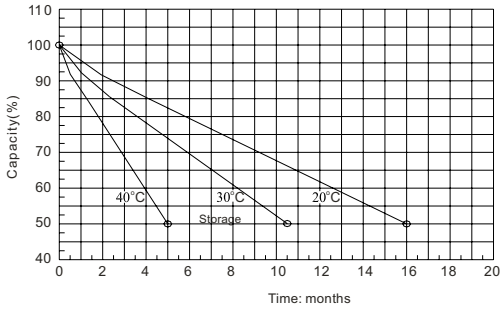
Constant voltage charging characteristic (0.25CA, at 25 C)°



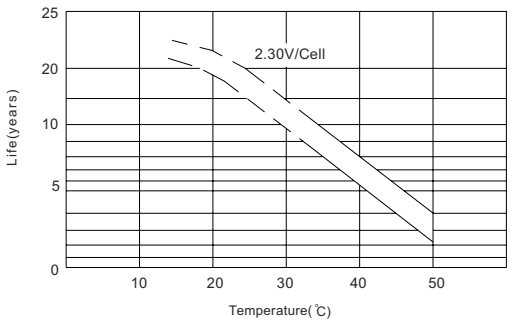
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use