



● 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°C. 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

● Specification

● Construction

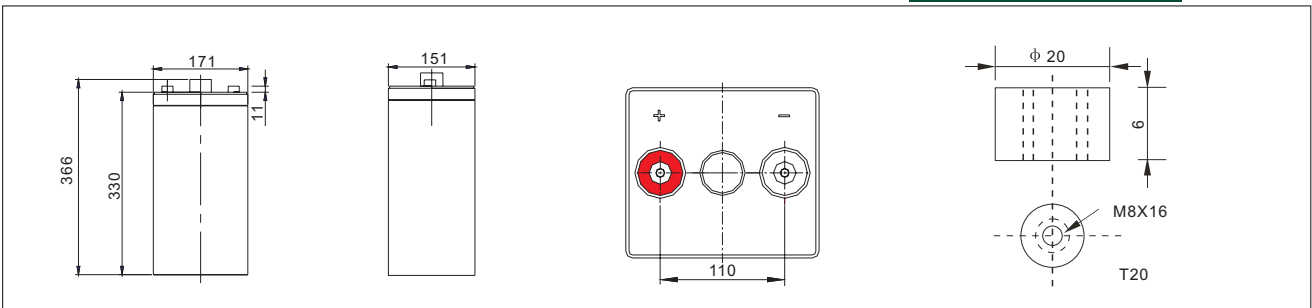
- *PositiveLead dioxide
- *ElectrolyteSulfuric acid
- *SeparatorFiber glass
- *ContainerABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- *NegativeLead
- *Safety ValveEPDR
- *TerminalCopper



Battery Model	Nominal Voltage		2V	
	Rated capacity(10 Hour rate)		250Ah	
Dimensions	Length	Width	Height	Total Height
	171mm (6.73 inches)	151mm(5.94 inches)	330mm(12.99 inches)	366mm (14.41 inches)
Approx Weight	18.00kg(39.69lbs)±3%			
Capacity 25°C (77°F)	10 Hour rate (25A, 1.8V)	5 Hour rate (40A, 1.75V)	3 Hour rate (62.5A, 1.7V)	1 Hour rate (150A, 1.6V)
	250Ah	200Ah	187.5Ah	150Ah
Max. discharge current	1250A(5Sec.)			
Internal Resistance	Full charged at 25 °C (77°F): Approx 0.55mΩ			
Capacity affected by Temp. (10 HR)	40°C (104 °F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge at 25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method 25°C (77°F)	Cycle Use		Float Use	
	2.35-2.40V (Initial charging current less than 100A)		2.25-2.30V	

● Outer dimensions (mm)

● Terminal Type (mm)

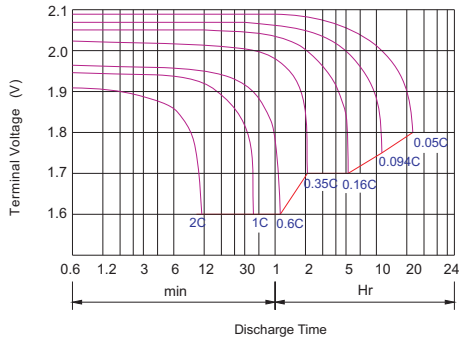


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

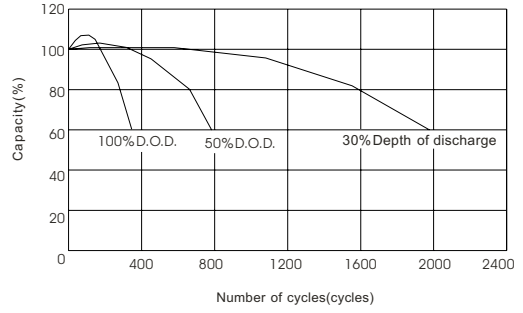
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	801	528	425	285	150.0	87.5	64.3	50.0	41.3	29.3	26.3	14.2
	W	1377	939	760	511	270.0	160.1	119.2	93.8	78.2	55.9	50.5	27.5
1.70V	A	776	476	401	273	141.0	83.5	62.5	48.8	40.5	28.5	25.8	13.8
	W	1380	886	747	510	265.8	160.4	120.6	94.5	78.7	55.6	50.4	26.9
1.75V	A	750	426	350	255	136.5	81.5	61.0	48.0	40.0	28.3	25.3	13.8
	W	1365	807	666	489	263.4	157.5	118.5	93.6	78.2	55.4	49.8	27.1
1.80V	A	723	401	326	235	132.0	79.5	59.5	47.3	39.0	27.5	25.0	13.5
	W	1352	771	625	454	256.1	155.2	116.9	93.0	76.8	54.3	49.5	26.8
1.85V	A	699	376	301	210	127.5	77.5	57.5	46.0	38.0	26.8	23.8	12.8
	W	1321	726	583	410	249.9	152.7	113.9	91.3	75.6	53.4	47.8	25.8



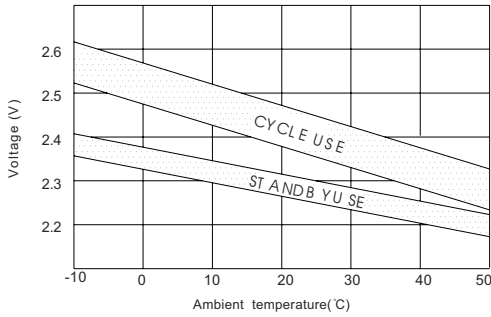
Discharge characteristic Curve



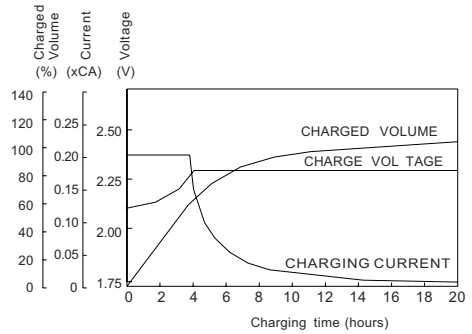
Cycle service life in relation to depth of discharge



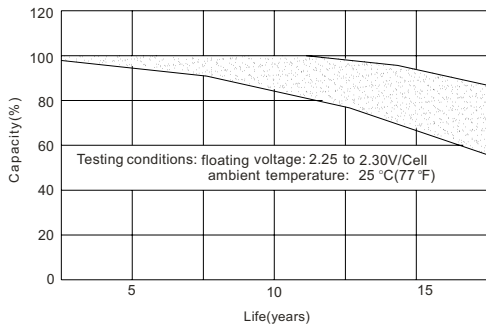
Relationship between charging voltage and temperature



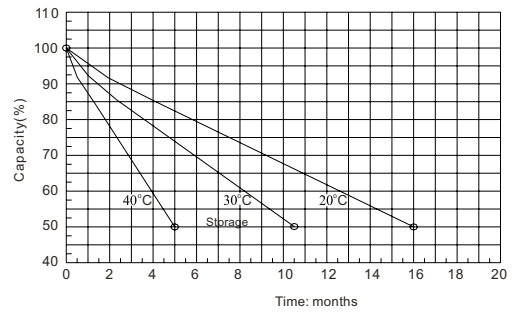
Constant voltage charging characteristic (0.25CA, at 25 °C)



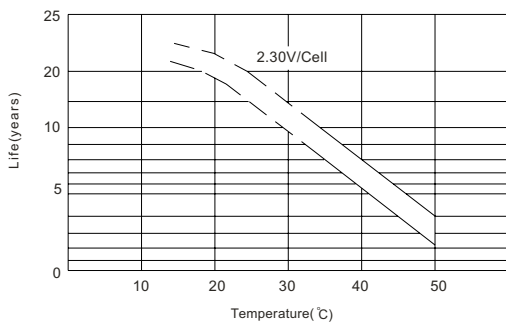
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

