



● 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

Battery Model	Nominal Voltage				2V			
	Rated capacity(10 Hour rate)				700Ah			
Dimensions	Length		Width		Height		Total Height	
	301mm (11.85 inches)		175mm(6.89 inches)		342mm(13.46 inches)		366mm (14.41 inches)	
Approx Weight	41.50kg(91.5lbs)±3%							
Capacity 25°C (77°F)	10 Hour rate (70A,1.8V)		5 Hour rate (112A,1.75V)		3 Hour rate (175A,1.7V)		1 Hour rate (420A,1.6V)	
	700Ah		560Ah		525Ah		420Ah	
Max.discharge current	2100A(5Sec.)							
Internal Resistance	Full charged at 25 °C (77°F): Approx 0.34mΩ							
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 280A)				2.25-2.30V			

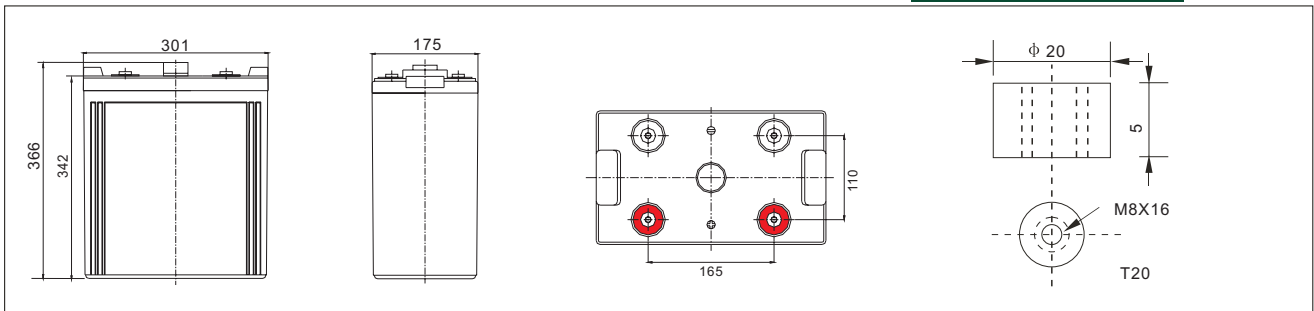


● Construction

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

● Outer dimensions (mm)

● Terminal Type (mm)

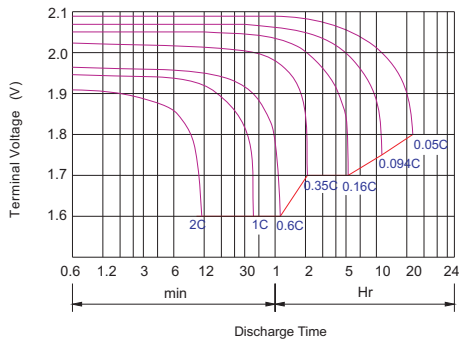


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

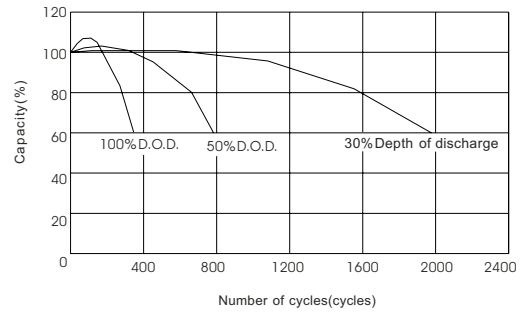
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	2242	1477	1191	798	420	245	180	140	116	82	74	40
	W	3856	2629	2128	1430	756	448	334	263	219	156	141	77
1.70V	A	2171	1333	1121	763	395	234	175	137	113	80	72	39
	W	3865	2480	2091	1428	744	449	338	265	220	156	141	75
1.75V	A	2101	1192	981	714	382	228	171	134	112	79	71	39
	W	3823	2260	1865	1369	738	441	332	262	219	155	139	76
1.80V	A	2024	1124	911	658	370	223	167	132	109	77	70	38
	W	3786	2159	1750	1271	717	435	327	260	215	152	139	75
1.85V	A	1957	1053	841	588	357	217	161	129	106	75	67	36
	W	3698	2032	1632	1147	700	427	319	256	212	150	134	72



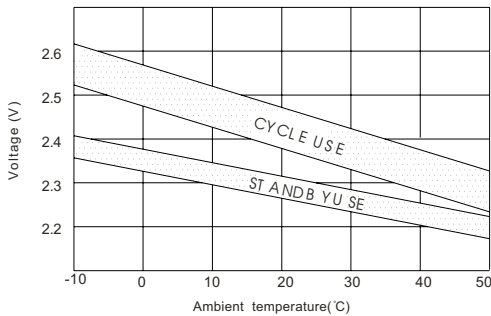
Discharge characteristic Curve



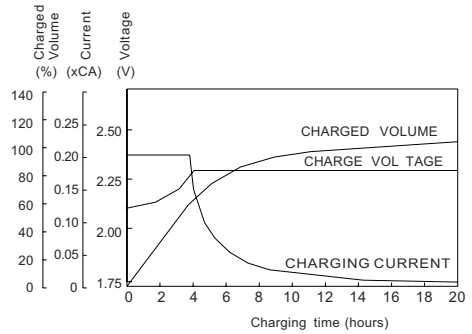
Cycle service life in relation to depth of discharge



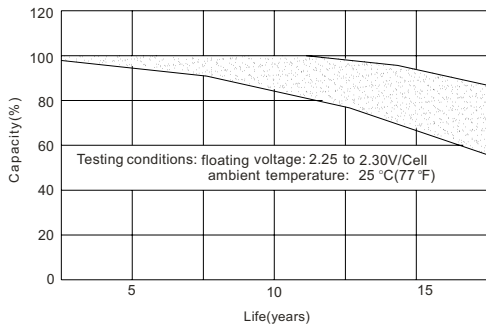
Relationship between charging voltage and temperature



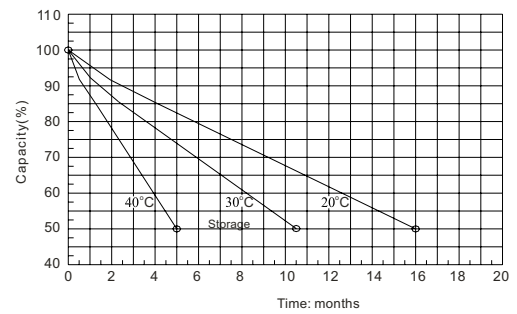
Constant voltage charging characteristic (0.25CA, at 25 °C)



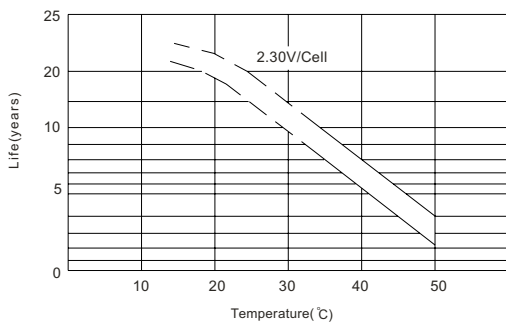
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

