



Deep Cycle Series Battery

NPD series VRLA batteries are superior deep cycle design with thick plates, high-density active materials And Slightly stronger electrolyte, Which can withstand repeated deep cyclic applications. Deep cycle series Batteries are the special design 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
- *Electric bicycle and wheelchairs, etc.
- *Power tools
- *Golf cars and buggies
- *Marine equipment
- *Solar and wind power system

General Features

- *Safety Sealing
- *Non-spillable construction
- *High power density
- *Excellent recovery from Deep discharge
- *Thick plates and high active materials
- *Longer Life and low self-discharge design

Specification

Construction

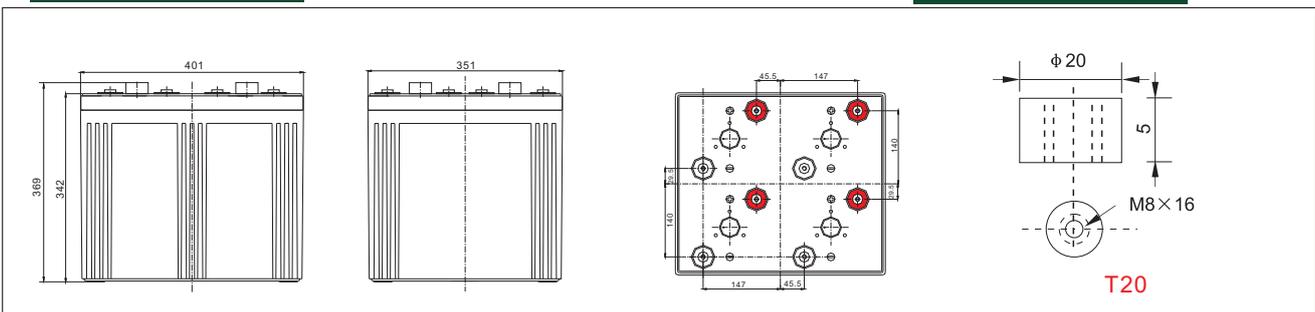
- *PositiveLead dioxide
- *ElectrolyteSulfuric acid
- *SeparatorFiber glass
- *ContainerABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- *NegativeLead
- *Safety ValveEPDR
- *TerminalCopper



Battery Model	Nominal Voltage		2V	
	Rated capacity(10 Hour rate)		1500Ah	
Dimensions	Length	Width	Height	Total Height
	401mm (15.79 inches)	351mm(13.82 inches)	342mm(13.46 inches)	369mm (14.53 inches)
Approx Weight	101.0kg(223lbs)±3%			
Capacity 25°C (77°F)	10 Hour rate (150A,1.80V)	5 Hour rate (255A,1.75V)	3 Hour rate (375A,1.70V)	1 Hour rate (825A,1.60V)
	1500Ah	1275Ah	1125Ah	825Ah
Max. discharge current	15000A(5 Sec.)			
Internal Resistance	Full charged at 25 °C (77°F): Approx 0.3Ω			
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 600A)		2.25-2.30V	

Outer dimensions (mm)

Terminal Type (mm)

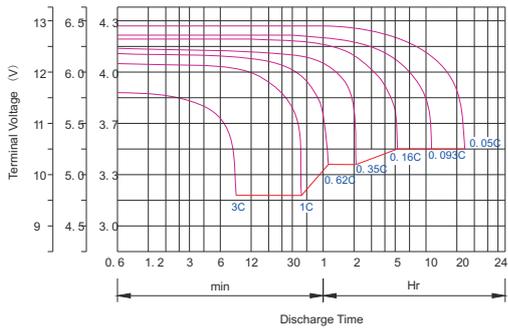


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

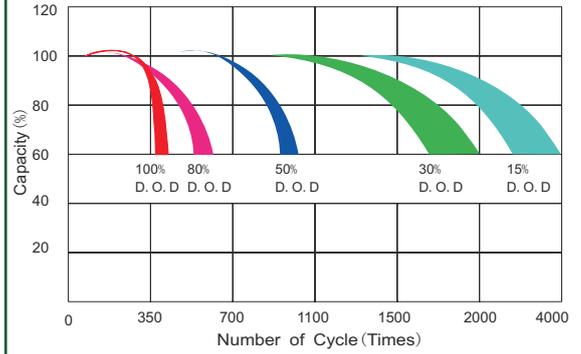
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	4805	3165	2552	1710	900.0	525.0	385.5	300.0	247.5	175.5	157.5	85.1
	W	8264	5634	4560	3064	1620.0	960.8	715.1	562.5	469.0	335.2	303.2	164.8
1.70V	A	4653	2856	2403	1635	846.0	501.0	375.0	292.5	243.0	171.0	154.5	82.5
	W	8282	5315	4482	3059	1594.7	962.4	723.8	566.9	472.1	333.5	302.5	161.3
1.75V	A	4502	2555	2102	1530	819.0	489.0	366.0	288.0	240.0	169.5	151.5	82.5
	W	8193	4843	3997	2935	1580.7	945.2	710.8	561.6	469.0	332.2	298.8	162.5
1.80V	A	4338	2408	1953	1410	792.0	477.0	357.0	283.5	234.0	165.0	150.0	81.0
	W	8112	4627	3750	2723	1536.5	931.1	701.5	557.9	461.0	325.9	297.2	160.8
1.85V	A	4193	2256	1803	1260	765.0	465.0	345.0	276.0	228.0	160.5	142.5	76.5
	W	7924	4354	3498	2457	1499.4	916.1	683.1	547.9	453.5	320.4	286.7	154.5



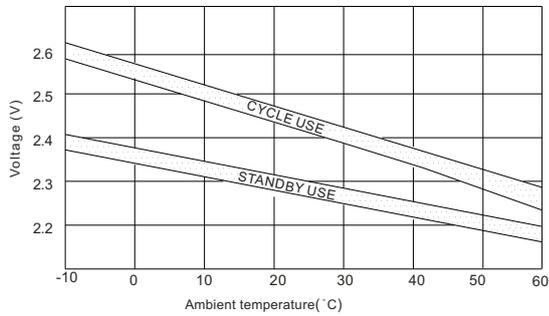
Discharge characteristic Curve



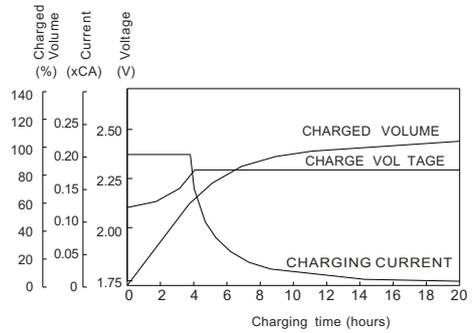
Cycle service life in relation to depth of discharge



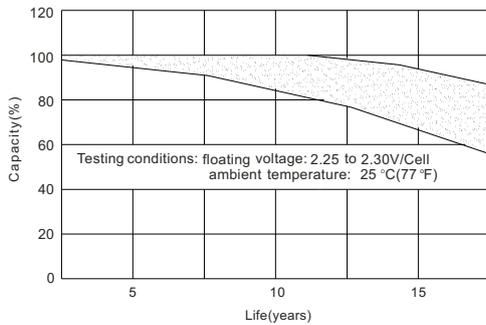
Relationship between charging voltage and temperature



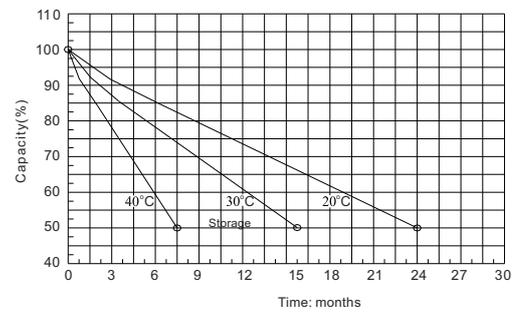
Constant voltage charging characteristic (0.25CA, at 25°C)



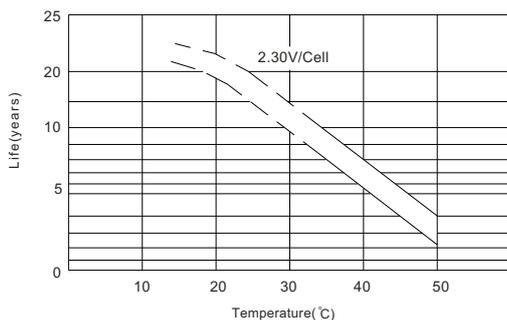
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

