



● 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

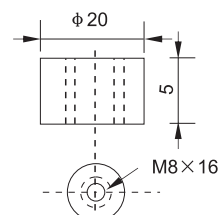
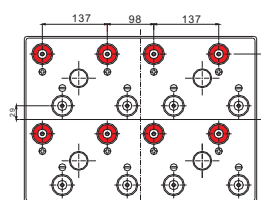
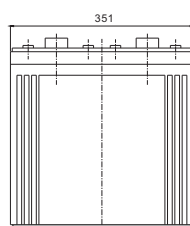
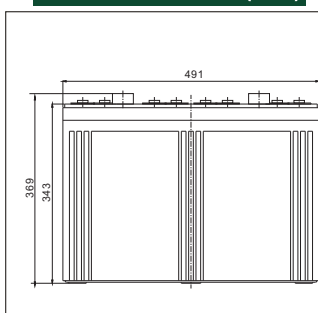
● Construction

- *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)		2000Ah	
Dimensions	Length	Width	Height	Total Height
	491mm (19.33 inches)	351mm(13.82 inches)	343mm(13.50 inches)	369mm (14.53 inches)
Approx Weight	132.0kg(290lbs)±3%			
Capacity 25°C (77°F)	10 Hour rate (200A,1.80V)	5 Hour rate (340A,1.75V)	3 Hour rate (500A,1.70V)	1 Hour rate (1100A,1.60V)
	2000Ah	1700Ah	1500Ah	1100Ah
Max.discharge current	20000A(5 Sec.)			
Internal Resistance	Full charged at 25 °C (77°F): Approx 0.3mΩ			
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 800A)		2.25-2.30V	

● Outer dimensions (mm)

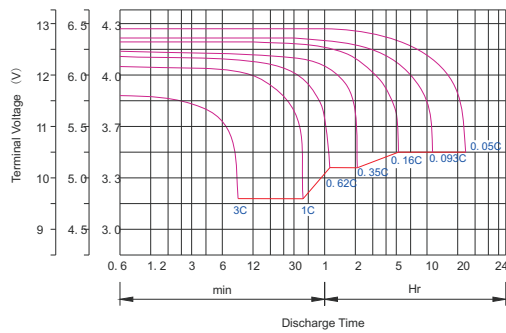


● Terminal Type (mm)

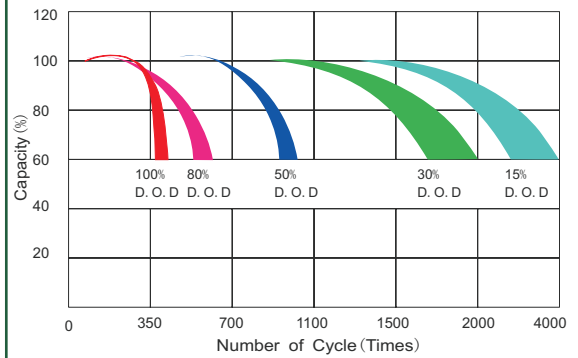
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)													
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	A	6406	4220	3402	2280	1200.0	700.0	514.0	400.0	330.0	234.0	210.0	113.4
	W	11018	7512	6079	4086	2160.0	1281.0	953.5	750.0	625.4	446.9	404.3	219.8
1.70V	A	6204	3808	3204	2180	1128.0	668.0	500.0	390.0	324.0	228.0	206.0	110.0
	W	11043	7087	5975	4079	2126.3	1283.2	965.0	755.8	629.5	444.6	403.3	215.1
1.75V	A	6002	3406	2802	2040	1092.0	652.0	488.0	384.0	320.0	226.0	202.0	110.0
	W	10924	6458	5329	3913	2107.6	1260.3	947.7	748.8	625.3	443.0	398.3	216.7
1.80V	A	5784	3210	2604	1880	1056.0	636.0	476.0	378.0	312.0	220.0	200.0	108.0
	W	10816	6170	5000	3630	2048.6	1241.5	935.3	743.9	614.6	434.5	396.2	214.4
1.85V	A	5590	3008	2404	1680	1020.0	620.0	460.0	368.0	304.0	214.0	190.0	102.0
	W	10565	5805	4664	3276	1999.2	1221.4	910.8	730.5	604.7	427.1	382.3	206.0



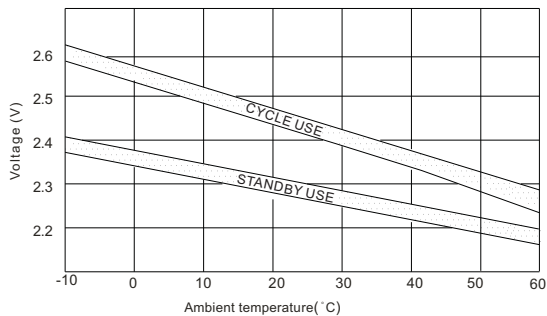
Discharge characteristic Curve



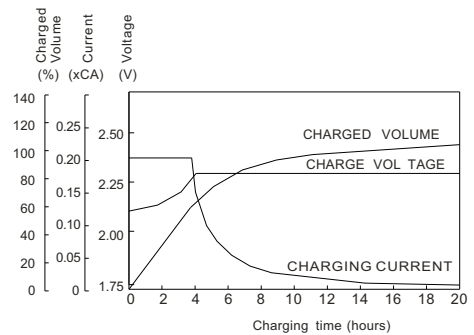
Cycle service life in relation to depth of discharge



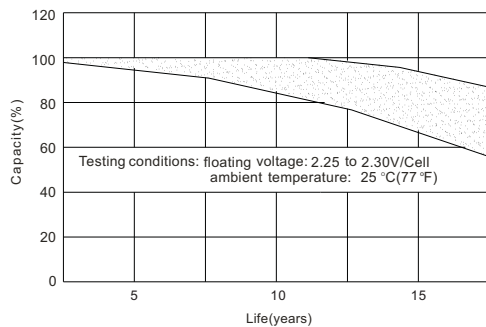
Relationship between charging voltage and temperature



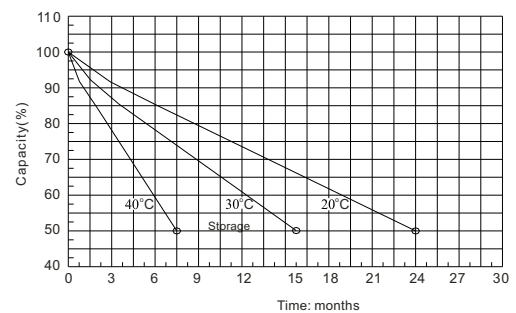
Constant voltage charging characteristic (0.25CA, at 25°C)



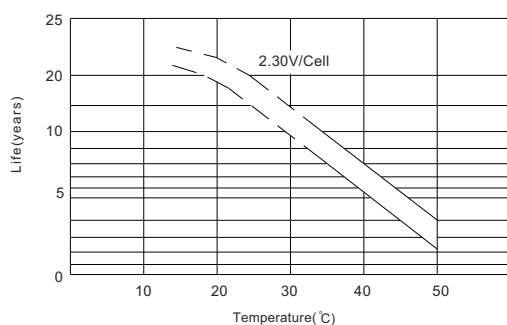
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

