



● 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 5 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

● Construction

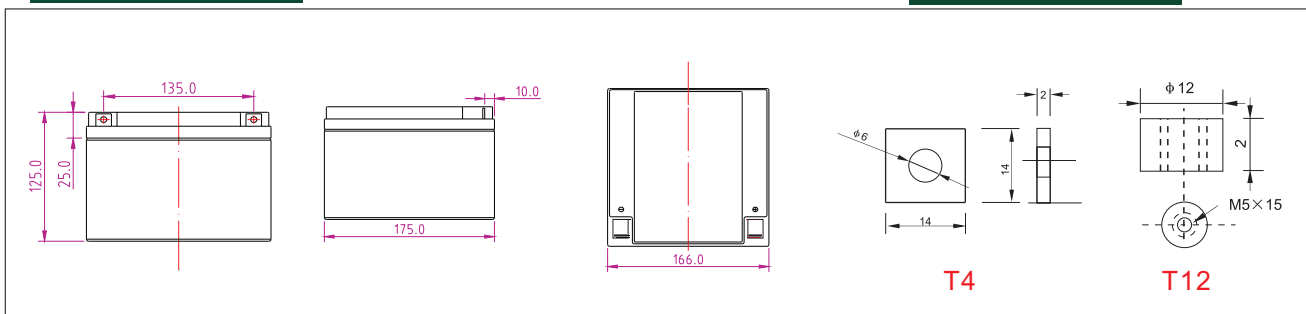
- *PositiveLead dioxide
- *ElectrolyteSulfuric acid
- *SeparatorFiber glass
- *ContainerABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- *NegativeLead
- *Safety ValveEPDR
- *TerminalCopper

● Specification

Battery Model	Nominal Voltage	12V			
	Rated capacity(20 Hour rate)	26Ah			
Dimensions	Length	Width	Height	Total Height	
	175mm(6.89 inches)	166mm (6.54 inches)	125mm(4.92 inches)	125mm(4.92 inches)	
Approx Weight	8.5kg(18.73lbs)±3%				
Capacity 25°C (77°F)	20hour(1.3A,10.8V)	10 hour (2.39A,10.5V)	5 Hour (4.4A,10.2V)	1 Hour (15.6A,9.6V)	
	26.0AH	23.9Ah	22.0Ah	15.6Ah	
Max. discharge current	260A(5 Sec.)				
Internal Resistance	Full charged at 25 °C: Approx 11mΩ				
Capacity affected by Temp. (20 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	
	14.4-14.7V (Initial charging current less than 10.4A)			13.50-13.80V	

● Outer dimensions (mm)

● Terminal Type (mm)

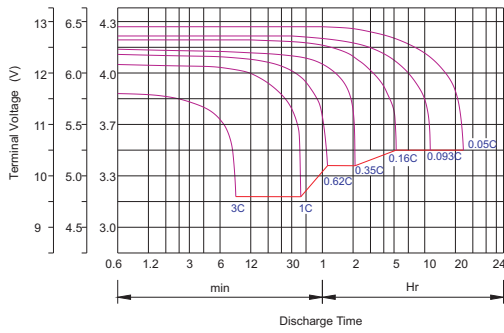


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

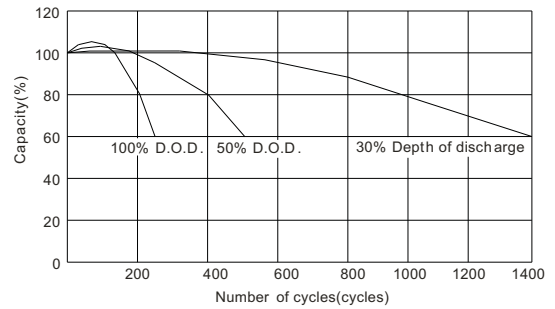
Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
9.60V	A	93.60	61.36	45.50	29.90	15.60	9.10	6.70	5.37	4.56	3.01	2.46	1.34
	W	1103.90	693.30	524.30	317.40	179.80	105.30	77.50	62.20	52.80	34.80	28.50	15.60
10.20V	A	85.80	58.72	41.80	28.38	14.65	8.73	6.50	5.20	4.47	2.96	2.42	1.31
	W	1038.90	656.50	492.90	315.30	169.00	101.10	75.30	60.20	51.80	34.20	28.00	15.20
10.50V	A	78.11	54.86	39.00	27.52	14.17	8.56	6.39	4.94	4.45	2.93	2.39	1.30
	W	1003.20	637.00	471.30	312.00	164.00	99.10	74.00	57.20	51.50	33.90	27.70	15.10
10.80V	A	75.06	52.43	36.40	26.76	13.69	8.34	6.28	4.85	4.23	2.85	2.33	1.27
	W	879.70	617.50	453.90	310.90	159.30	97.10	73.10	56.50	49.20	32.50	27.10	14.70
11.10V	A	69.42	49.40	33.80	26.00	13.22	8.13	5.96	4.77	4.04	2.77	2.28	1.24
	W	850.40	596.90	432.30	308.80	157.10	96.40	71.00	56.30	48.10	31.40	26.50	14.60



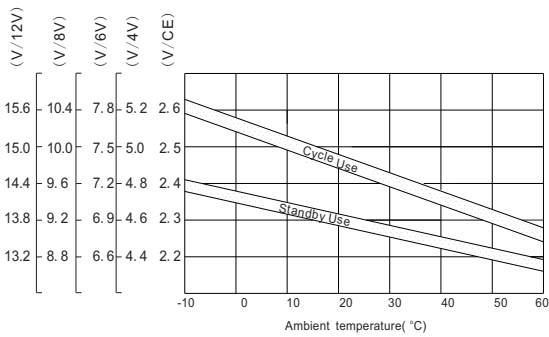
Discharge characteristic Curve



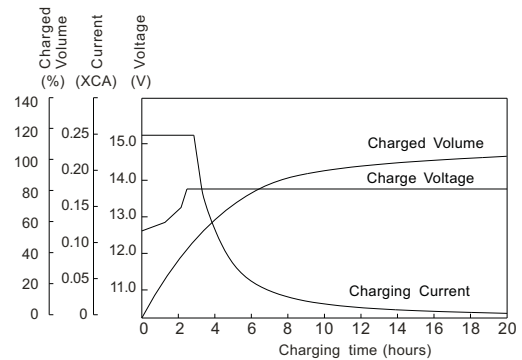
Cycle service life in relation to depth of discharge



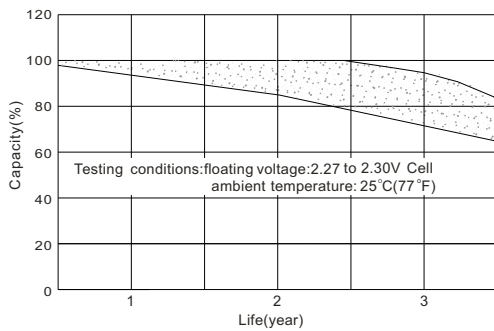
Relationship between charging voltage and temperature



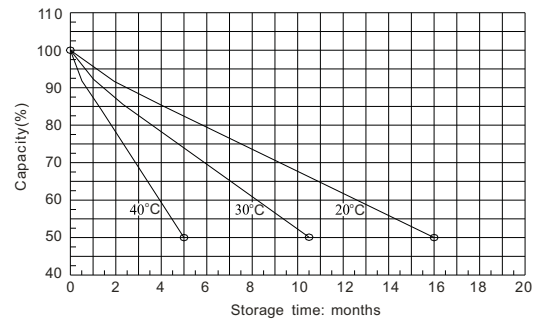
Constant voltage charging characteristic (0.25CA, at 25°C)



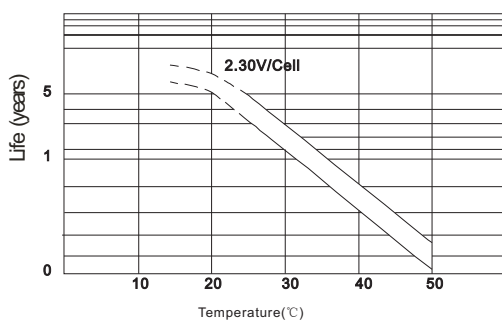
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

