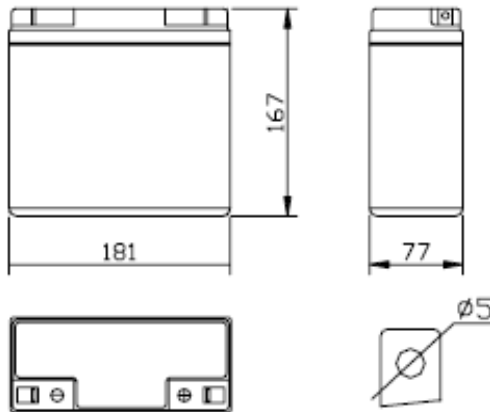


NPD12170 12V17AH

The battery is designed specially for electric vehicles, such as electric golf cart, electric wheelchair, mower dust collector etc. It has high cycling life, high efficiency and long service life.

Outer Dimensions



Dimensions and Weight

Length (mm / inch).....	181 / 7.13
Width (mm / inch)	77 / 3.03
Height (mm / inch)	167 / 6.57
Total Height (mm / inch).....	167 / 6.57
Approx.Weight(Kg / lbs).....	6.5 /14.33

Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

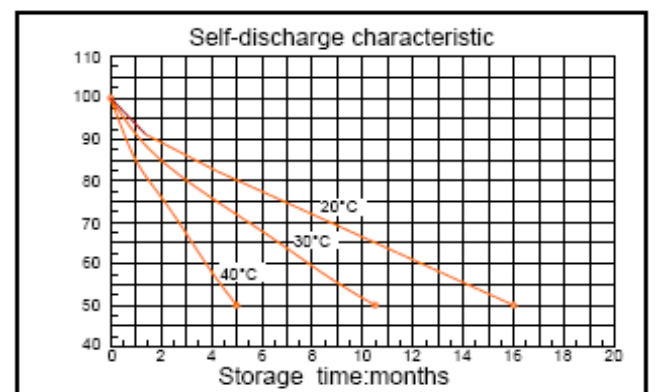
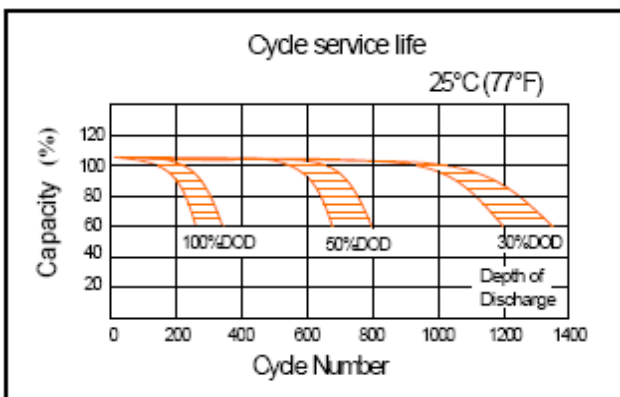
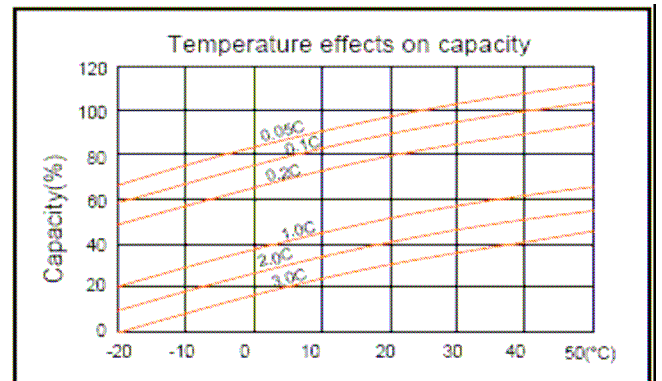
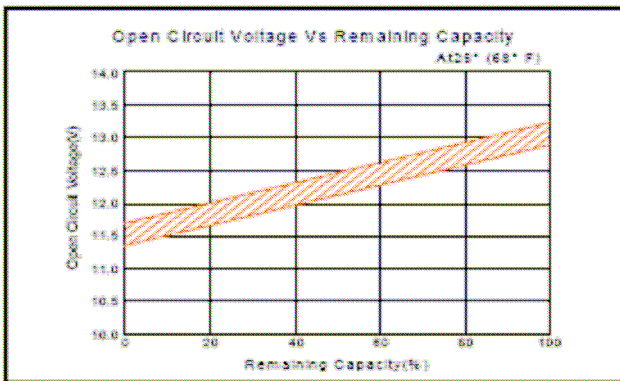
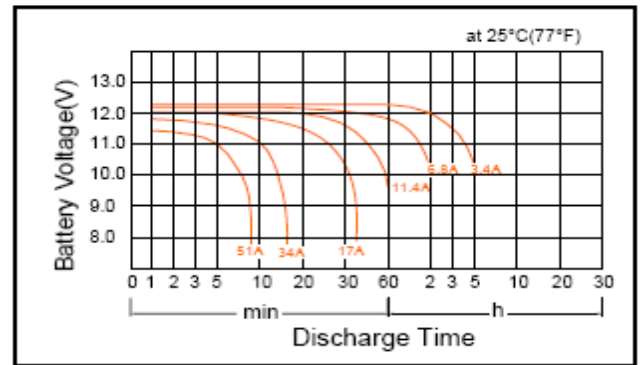
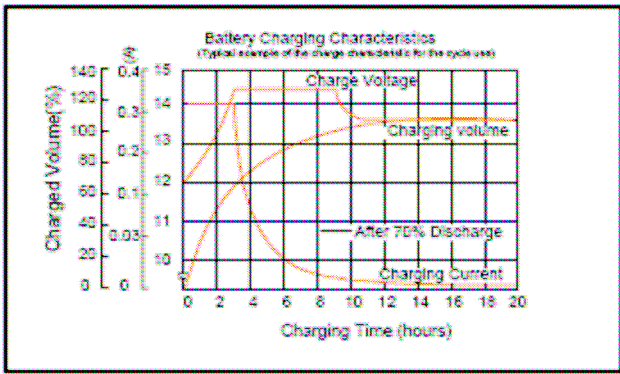
Charging Methods

Application	Charging method	Charging Voltage at 25° C	Temperature compensation coefficient of charging voltage	Max.charging current	Charging time 0.1CA, 25° C (h)		Temp (° C)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	13.6~13.8V	-20 mV/° C	5.1A	24	20	0~40 (32~104° F)
For cycle service		14.6~15.0V	-30 mV/° C	5.1A	16	10	

Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	3 years
Nominal Capacity 77°F (25°C)	
5 hour rate (5.2A, 10.5V)	17.0Ah
2 hour rate(10.8A, 10.5V)	14.1Ah
1 hour rate(11.4A, 9.6V)	11.4Ah
Internal Resistance	
Fully Charged battery 77°F (25°C)	15mOhms
Self-Discharge	
3% of capacity declined per month at 25°C (average)	
Operation Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max.Discharge Current 77°F (25°C)	255A(5s)
Short Circuit Current	340A

*Temperature compensation of charging voltage is not needed when using the batteries within 15°C to 35°C range.



Discharge Constant Current (Amperes at 77°F/25°C)

F.V / Time	10 Min	15 Min	30 Min	40 Min	1 h	2 h	3 h	5 h
10.8V	42.5	32.3	19.7	16.7	11.9	6.94	4.96	3.37
10.5V	45.3	33.7	20.5	16.9	12.2	7.08	5.07	3.40
10.2V	48.2	34.9	21.0	17.1	12.5	7.23	5.10	3.43
9.90V	49.6	35.6	21.3	17.4	12.6	7.37	5.13	3.46
9.60V	51.0	36.3	21.5	17.7	12.8	7.51	5.17	3.49

Discharge Constant Power (Watts/ at 77°F/25°C)

F.V / Time	10 Min	15 Min	30 Min	40 Min	1 h	2 h	3 h	5 h
10.8V	458	371	233	233	141	80.4	59.5	37.7
10.5V	496	388	242	242	145	82.2	60.6	38.3
10.2V	514	400	247	247	148	83.4	61.2	38.5
9.90V	526	410	251	251	149	84.6	61.8	38.8
9.60V	536	418	253	253	151	85.2	61.8	38.8

Newton Power Deep Cycle Batteries

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and Battery designs/specification are subject to modification without notice. Contact YHI Power for latest information.