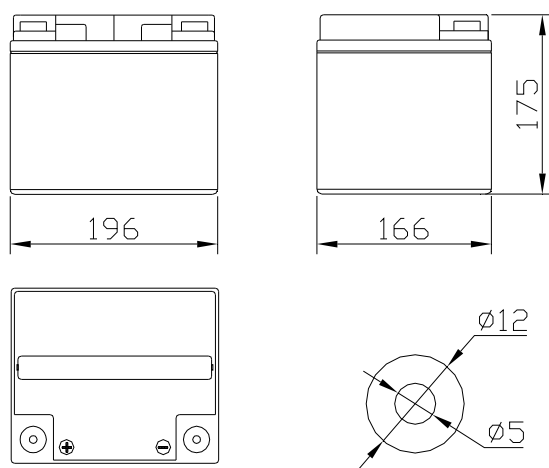


NPD12400 12V40AH

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)	196 / 7.72
Width (mm / inch)	166 / 6.54
Height (mm / inch)	175 / 6.89
Total Height (mm / inch)	175 / 6.89
Approx.Weight(Kg / lbs)	13.0 / 28.66

Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	3 years
Nominal Capacity 77°F(25°C)	
5 hour rate(8.0A,10.5V)	40Ah
2 hour rate(16.0A,10.5V)	32Ah
1 hour rate(25.5A,9.6V)	25.5Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	9 mOhms
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)	380A(5s)
Short Circuit Current	836A

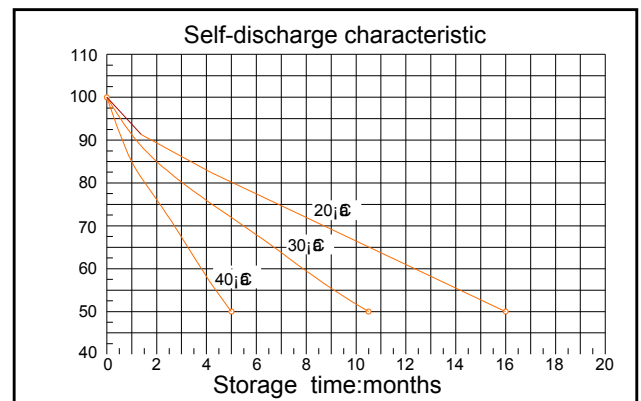
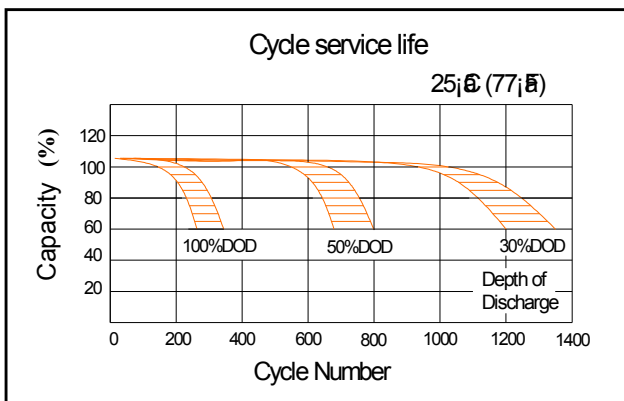
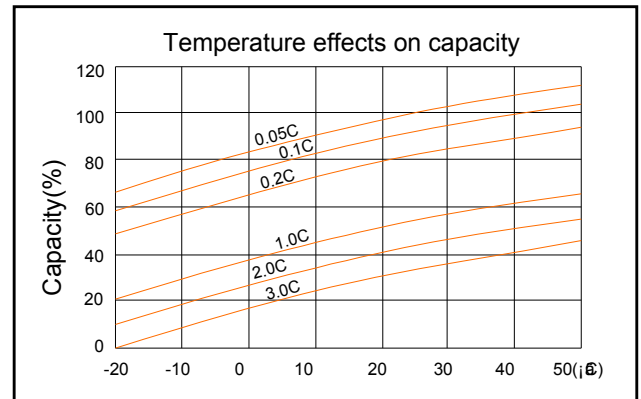
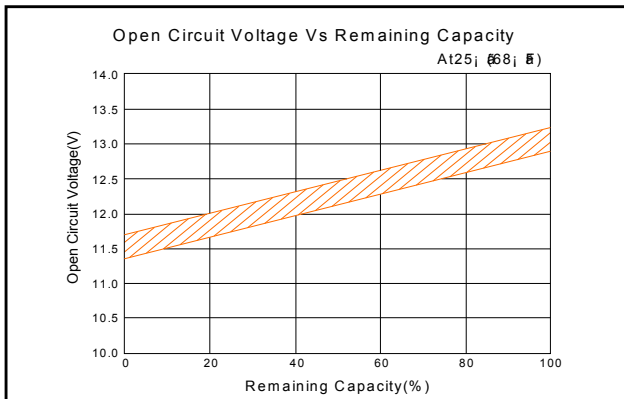
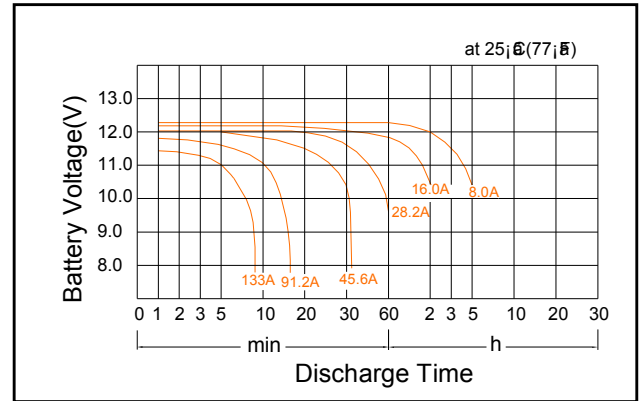
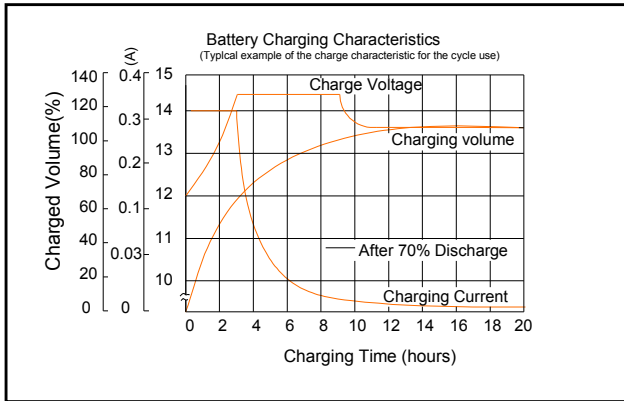
Battery Construction

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	-18 mV/°C	20A	24	20	0~40 (32~104°F)
For cycle service		14.6~15.0V	-30 mV/°C	20A	16	10	

*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°F25°C)

F.V / Time	10 Min	15 Min	30 Min	40 Min	1 h	2 h	3 h	5 h
10.8V	95.0	72.2	44.0	37.4	26.6	16.0	11.5	7.94
10.5V	101	75.4	45.9	37.7	27.2	16.3	11.7	8.00
10.2V	108	77.9	46.9	38.3	27.9	16.7	11.8	8.06
9.90V	110	79.5	47.5	39.0	28.2	17.0	11.9	8.14
9.60V	114	81.1	48.1	39.6	28.5	17.3	12.0	8.20

Discharge Constant Power (Watts at 77°F25°C)

F.V / Time	10 Min	15 Min	30 Min	40 Min	1 h	2 h	3 h	5 h
10.8V	95.0	72.2	44.0	37.4	26.6	16.0	11.3	7.8
10.5V	101	75.4	45.9	37.7	27.2	16.3	11.5	8.0
10.2V	108	77.9	46.9	38.3	27.9	16.7	11.8	8.0
9.90V	110	79.5	47.5	39.0	28.2	17.0	11.9	8.1
9.60V	114	81.1	48.1	39.6	28.5	17.2	11.9	8.1