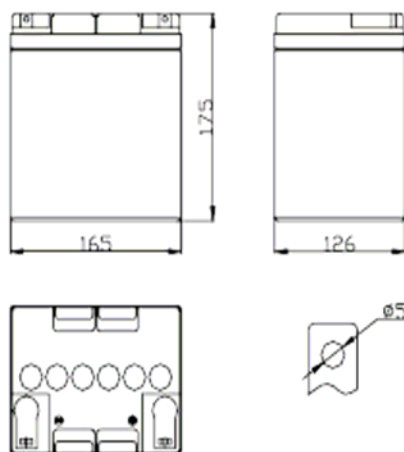


## NPD12240 12V24AH

The battery is designed specially for electric vehicles, such as electric golf cart, electric wheelchair, and mower dust collector etc.

It has a high cycle life, high efficiency and long service life.

### Outer Dimensions



### Dimensions and Weight

Length ( mm / inch )	165 / 6.50
Width ( mm / inch )	126 / 4.96
Height ( mm / inch )	175 / 6.89
Total Height ( mm / inch )	175 / 6.89
Approx.Weight( Kg / lbs )	9.9 / 21.83

### Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	3 years
Nominal Capacity 77°F(25°C)	
5 hour rate(4.8A,10.5V)	24Ah
2 hour rate ( 9.95A,10.5V)	19.9Ah
1 hour rate(16.1A,9.6V)	16.1Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	13mOhms
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)	240A(5s)
Short Circuit Current	528A

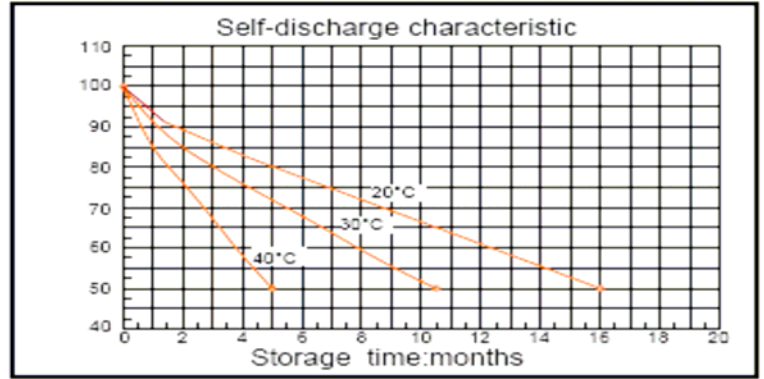
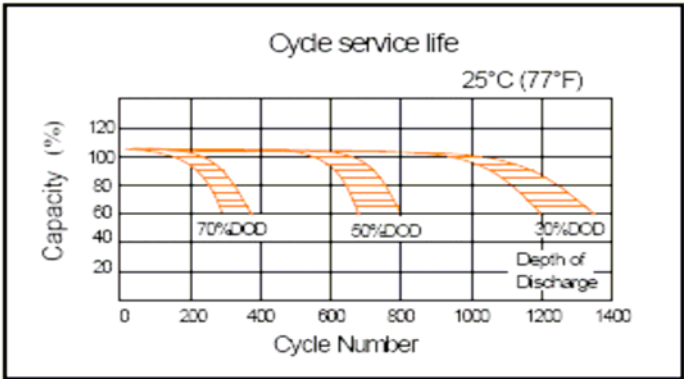
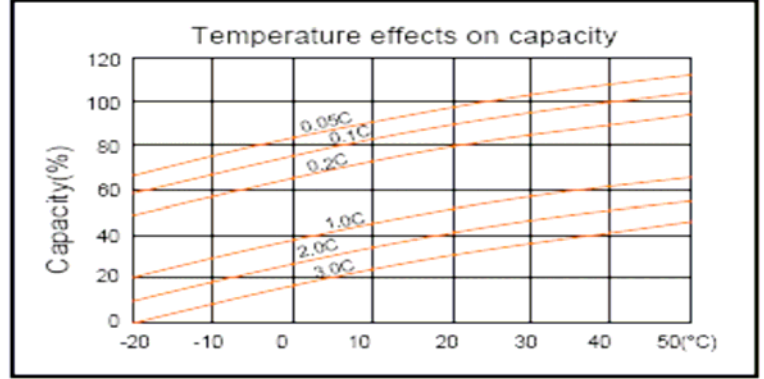
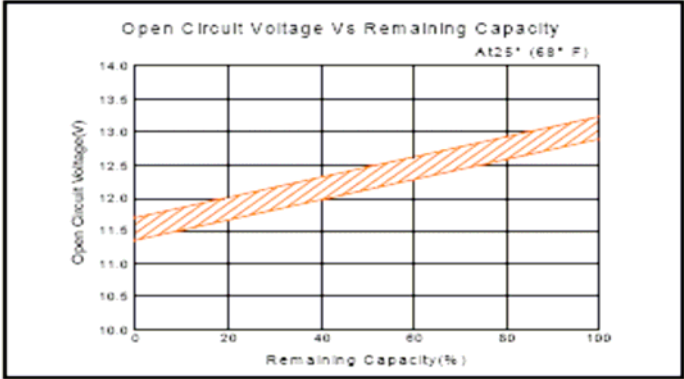
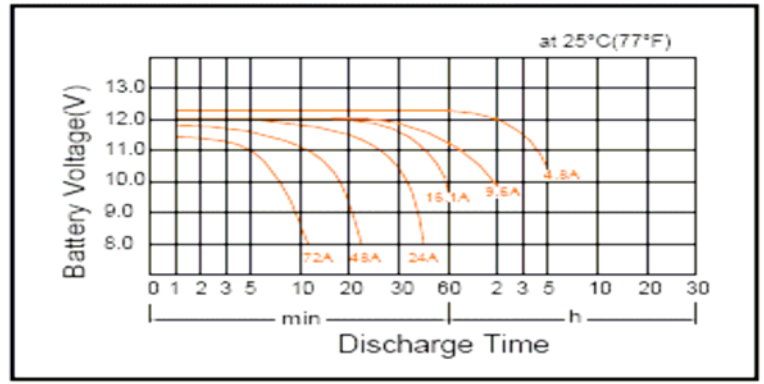
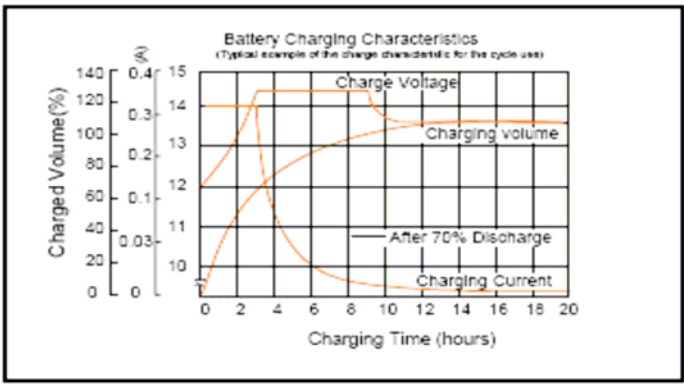
### Battery Construction

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	13.6~13.8V	-20 mV/° C	7.2A	24	20	0~40 (32~104° F)
For cycle service	Charging (with current restriction)	14.6~15.0V	-30 mV/° C	7.2A	16	10	

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



**Constant Current Discharge Characteristics Unit: A (25°C,77°F)**

F.V / Time	5Min	10Min	15Min	30Min	1HR	2HR	3 HR	4HR	5HR	8HR	10HR	20HR
9.6V	534	422	344	206	134	76.1	51.6	42.5	37.8	25.1	20.0	10.40
10.0V	493	397	324	196	131	75.9	50.4	42.0	37.1	24.7	19.6	10.30
10.2V	456	374	303	189	128	75.5	49.4	41.7	36.3	24.5	19.2	10.10
10.5V	427	349	283	182	125	74.7	48.3	40.0	35.6	23.9	18.8	10.00
10.8V	369	321	263	175	122	73.9	46.9	38.4	34.8	23.7	18.3	9.84

**Constant Power Discharge Characteristics Unit: Watt(25°C,77°F)**

F.V / Time	5Min	10Min	15Min	30Min	1HR	2HR	3 HR	4HR	5HR	8HR	10HR	20HR
9.6V	7167	5833	5139	2861	1500	895	612	500	425	297	244	124
10.0V	7112	5667	4617	2821	1488	895	605	495	420	292	241	122
10.2V	7084	5667	4388	2805	1488	895	605	492	417	288	240	121
10.5V	6779	5361	4295	2721	1461	884	588	473	397	285	235	119
10.8V	6472	5084	4195	2645	1433	879	579	455	364	280	231	117