



# AGM DEEP CYCLE Battery

## NPDC121250

Classic Range



### Applications

- > Electric vehicle / Golf trolley and golf cart
- > Lawn mowers / Wheelchairs
- > Electric toys/ Electric tools
- > Lawn mowers / Sweeper
- > illumination light
- > Other general purpose

### General Features

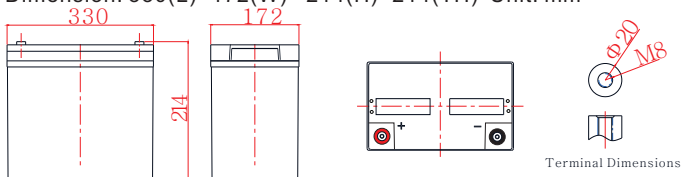
- > Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Precision sealing technology
- > Long life

### Specification

Nominal Voltage	12V
Nominal Capacity	125Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 32.8kg (72.31lbs)
Container Material	ABS
Rated Capacity	<b>125Ah</b> 20Hour Rate (6.25A to 10.5V) <b>96.6Ah</b> 3Hour Rate (32.2A to 10.5V) <b>81.7Ah</b> 1Hour Rate (81.7A to 9.60V)
Internal resistance	Full charged at 25°C: 5.50 mΩ
Max. Discharge Current	1500A(5S)
Operating Temperature	Discharge: -40 ~60°C(-40~ 140°F) Charge: -20 ~50°C(-4~ 122°F) Storage: -20 ~50°C(-4~ 122°F)
Charge current:	Max. 31.3A ; Recom.12.5A
Charge Method (25 °C)	Float Charge:13.5-13.8V,recom.13.8V(-18mV/ °C) Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C) Cycle charge:14.4-15.0V,recom.14.7V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C



Dimension: 330(L)×172(W)×214(H)×214(TH) Unit: mm



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

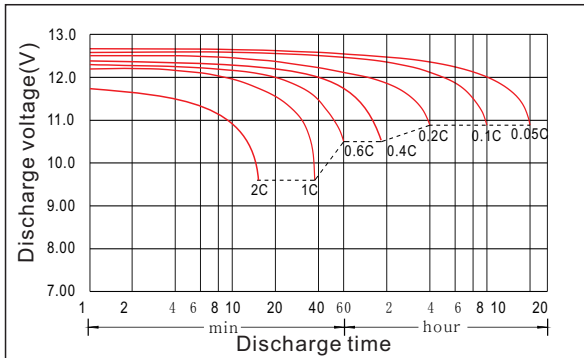
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	486	318	239	157	81.7	46.8	34.2	27.5	23.3	15.3	12.5	6.63
1.65V	481	303	219	149	76.9	45.0	33.2	26.5	22.7	15.1	12.3	6.54
1.70V	395	287	204	144	74.0	44.0	32.7	25.2	22.5	14.9	12.1	6.39
1.75V	367	271	190	141	71.6	43.1	32.2	24.8	21.5	14.5	11.8	6.25
1.80V	338	257	177	136	69.2	41.9	30.4	24.3	20.7	14.1	11.6	6.01

### Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

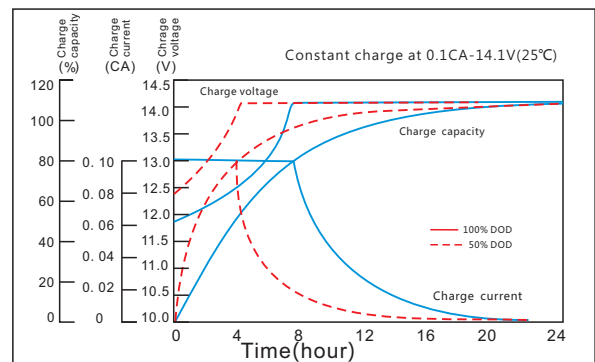
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	914	572	439	264	151	87.5	64.4	51.9	44.0	28.9	24.1	13.2
1.65V	841	539	410	262	140	84.1	62.5	50.0	43.0	28.5	23.7	12.8
1.70V	769	524	391	263	136	82.7	61.5	47.6	41.8	28.2	23.5	12.7
1.75V	697	510	379	261	132	80.8	61.1	46.9	41.1	27.0	22.9	12.5
1.80V	625	490	362	257	130	80.3	59.1	46.4	40.1	26.2	22.5	12.4

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

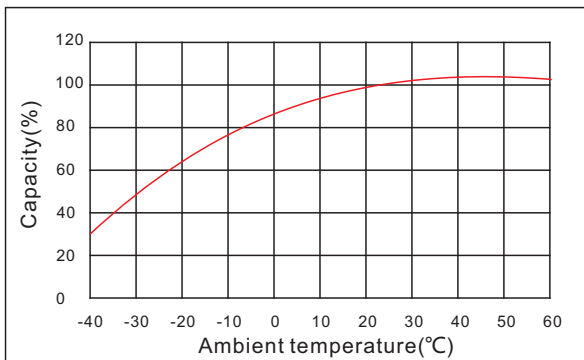
Discharge characteristic



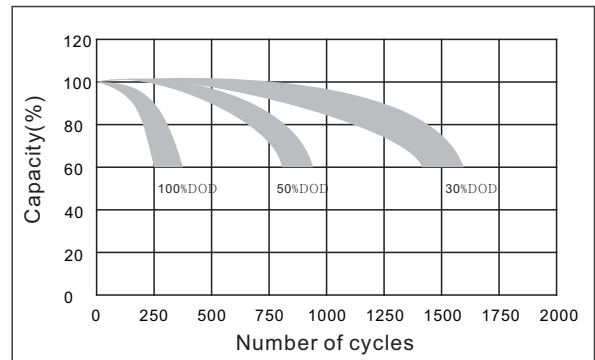
Charging characteristic



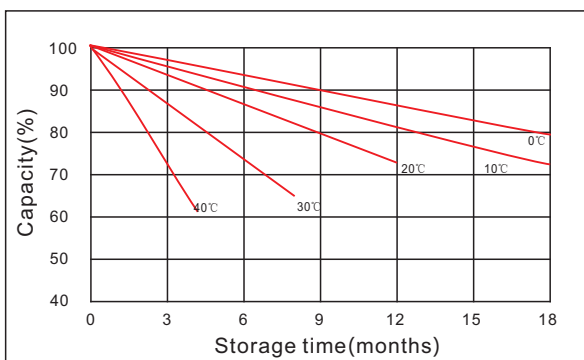
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

