



# NPDC81800

## AGM DEEP CYCLE Battery

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

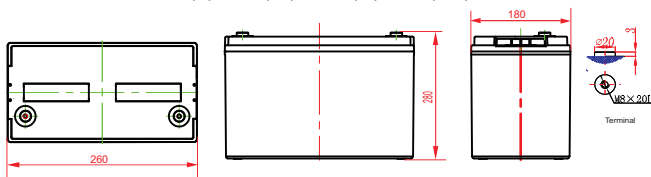
- > Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability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

### Specification

Nominal Voltage	8V
Nominal Capacity	180Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 33.5kg (73.9lbs)
Container Material	ABS
Rated Capacity	<b>180Ah</b> 20Hour Rate (9.00A to 7.0V)
	<b>138Ah</b> 3Hour Rate (46.0A to 7.0V)
	<b>114Ah</b> 1Hour Rate (114A to 6.4V)
Internal resistance	Full charged at 25°C: 4.0 mΩ
Max. Discharge Current	2160A(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. 45.0A ; Recom.18.0A
Charge Method (25 °C)	Float Charge:9.13-9.27V, recom.9.2V(-18mV/ °C)
	Equalize charge:9.2-9.4V, recom.9.4V(-24mV/ °C)
	Cycle charge:9.6-10.0V, recom.9.8V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C



Dimension: 260(L)×180(W) ×280(H)×280(TH) Unit: mm



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

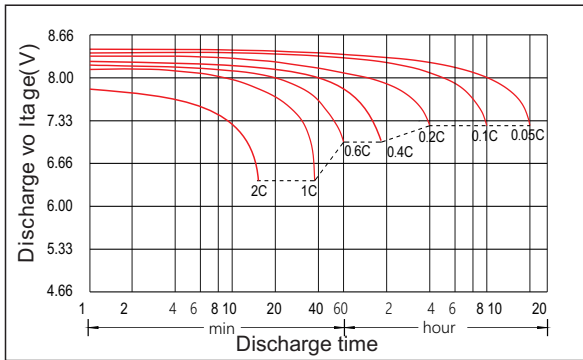
F.V/Time	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	322	196	114	65.6	47.6	32.0	21.0	17.7	9.28
1.65V	312	192	114	65.4	47.2	31.6	20.8	17.5	9.24
1.70V	306	189	113	64.8	46.4	31.4	20.6	17.3	9.18
1.75V	296	187	111	63.8	46.0	31.0	20.4	17.2	9.00
1.80V	276	179	108	62.6	45.6	30.2	20.4	17.0	8.96
1.85V	246	164	100	59.4	43.0	28.6	19.5	16.5	8.94

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

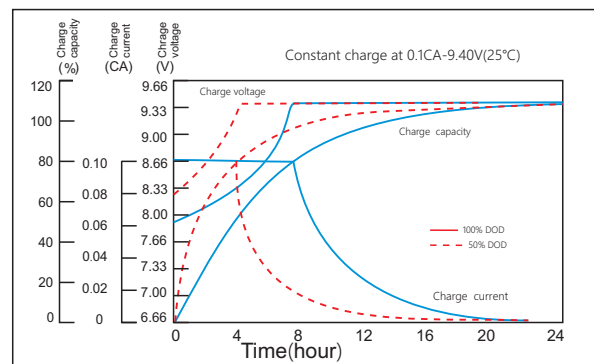
F.V/Time	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	566	354	216	124	90.6	60.6	40.8	34.0	18.4
1.65V	556	350	214	124	89.4	60.4	40.4	33.6	18.3
1.70V	550	350	214	123	89.0	59.8	40.4	33.4	18.2
1.75V	546	350	212	123	88.4	59.4	40.0	33.0	18.1
1.80V	518	340	210	122	88.2	58.8	39.6	32.6	18.0
1.85V	462	312	195	117	83.8	56.2	38.2	32.2	17.9

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.

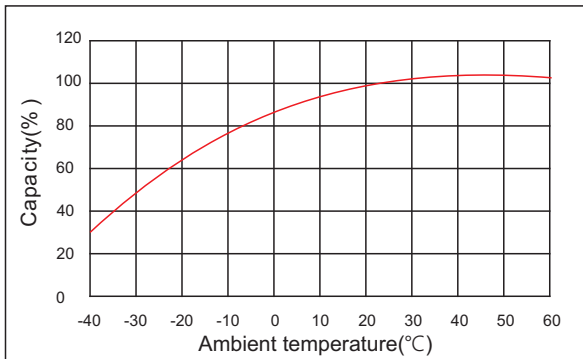
Discharge characteristic



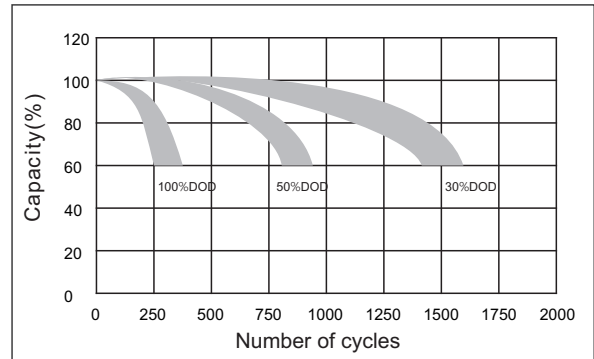
Charging characteristic



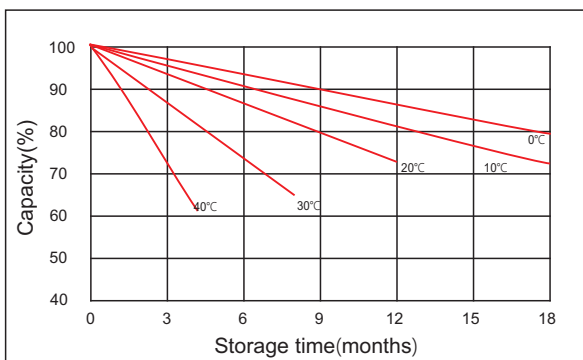
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

