

NPDC121250

AGM Deep Cycle Battery

Classic Range

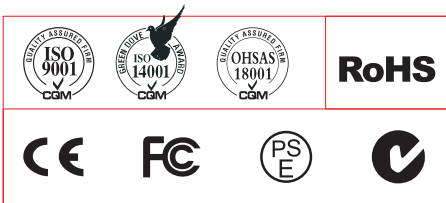


Applications

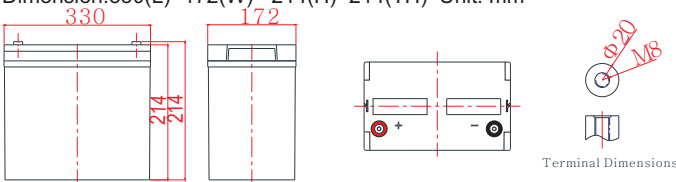
- > Electric vehicle / Golf trolley and golf cart
- > Lawn mowers / Wheelchairs
- > Electric toys/ Electric tools
- > Lawn mowers / Sweeper
- > illumination light
- > Other general purpose

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



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



Specification

Nominal Voltage	12V
Nominal Capacity	125Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 33.2kg (73.2lbs)
Container Material	ABS
Rated Capacity	125Ah 20Hour Rate (6.25A to 10.5V)
	96.6Ah 3Hour Rate (32.2A to 10.5V)
	71.6Ah 1Hour Rate (71.6A to 9.60V)
Internal resistance	Full charged at 25°C: 5.0 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. 30.0A ; Recom. 12.0A
Charge Method (25 °C)	Float Charge: 13.5-13.8V, recom. 13.5V (-18mV/ °C)
	Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/ °C)
	Cycle charge: 14.4-15.0V, recom. 14.4V (-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

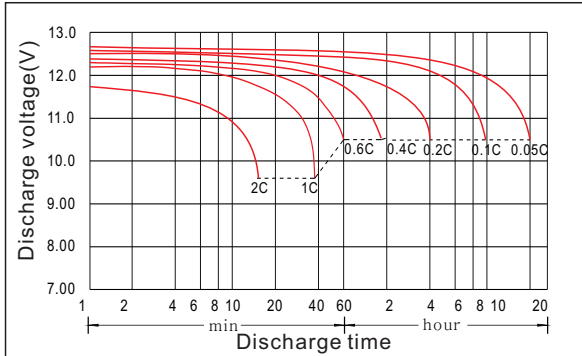
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	239	157	81.7	46.8	34.2	23.3	15.3	12.5	6.63
1.65V	219	149	76.9	45.0	33.2	22.7	15.1	12.3	6.54
1.70V	204	144	74.0	44.0	32.7	22.5	14.9	12.1	6.39
1.75V	190	141	71.6	43.1	32.2	21.5	14.5	11.8	6.25
1.80V	177	136	69.2	41.9	30.4	20.7	14.1	11.6	6.01
1.85V	164	131	66.8	40.7	28.6	20.0	13.7	11.4	5.77

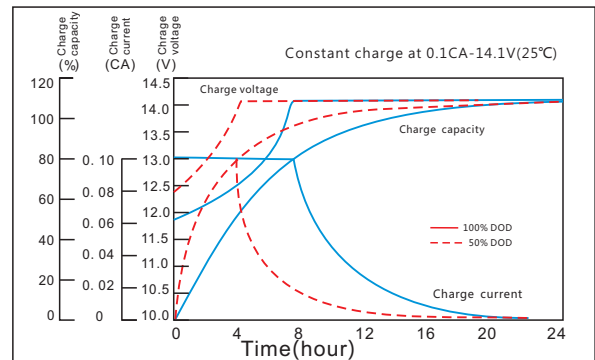
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	439	264	151	87.5	64.4	44.0	28.9	24.1	13.2
1.65V	410	262	140	84.1	62.5	43.0	28.5	23.7	12.8
1.70V	391	263	136	82.7	61.5	41.8	28.2	23.5	12.7
1.75V	379	261	132	80.8	61.1	41.1	27.0	22.9	12.5
1.80V	362	257	130	80.3	59.1	40.1	26.2	22.5	12.4
1.85V	347	254	128	79.7	58.5	39.2	25.2	22.1	12.2

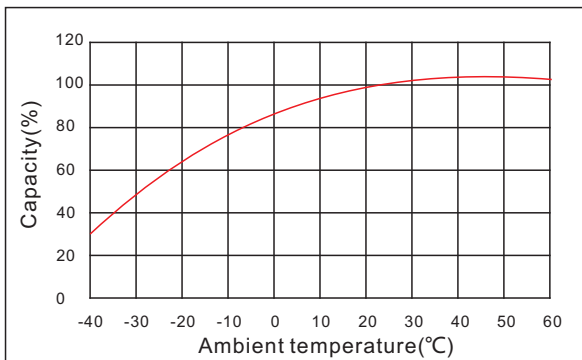
Discharge characteristic



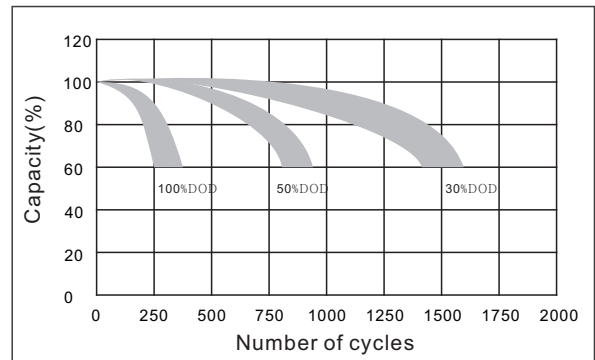
Charging characteristic



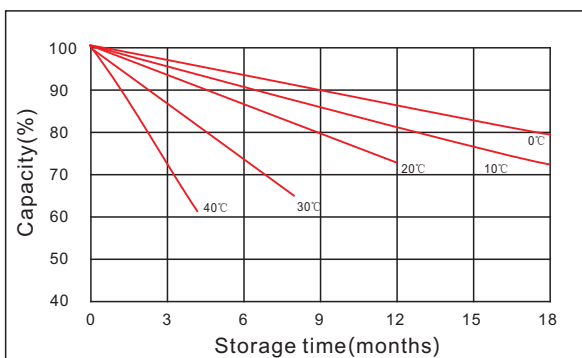
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

