



### 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

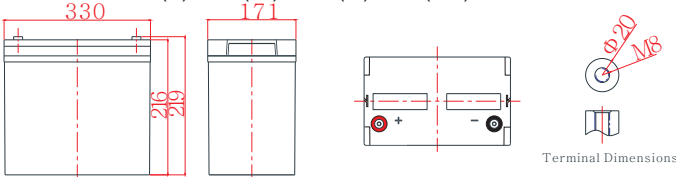
- > Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability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

### Specification

Nominal Voltage	12V
Nominal Capacity	120Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 32.5kg (71.7lbs)
Container Material	ABS
Rated Capacity	<b>120Ah</b> 20Hour Rate (6.00A to 10.5V)
	<b>85.8Ah</b> 3Hour Rate (28.6A to 10.5V)
	<b>71.3Ah</b> 1Hour Rate (71.3A to 9.60V)
Internal resistance	Full charged at 25°C: 5.2 mΩ
Max. Discharge Current	1200A(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. 27.5A ; Recom. 11.0A
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



Dimension: 330(L)×171(W) ×216(H)×219(TH) Unit: mm



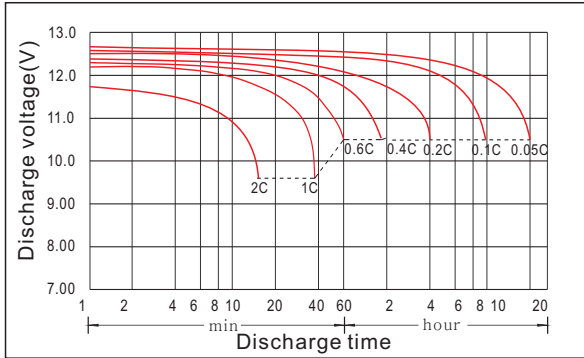
### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	198	121	71.3	40.9	29.7	19.9	13.1	11.2	6.09
1.65V	192	119	70.8	40.7	29.4	19.7	13.0	11.1	6.05
1.70V	188	117	70.3	40.3	28.9	19.5	12.9	11.0	6.02
1.75V	182	115	69.3	39.7	28.6	19.3	12.8	10.9	6.00
1.80V	170	110	67.5	39.0	28.4	18.8	12.7	10.8	5.96
1.85V	151	101	62.5	37.0	26.8	17.8	12.1	10.4	5.86

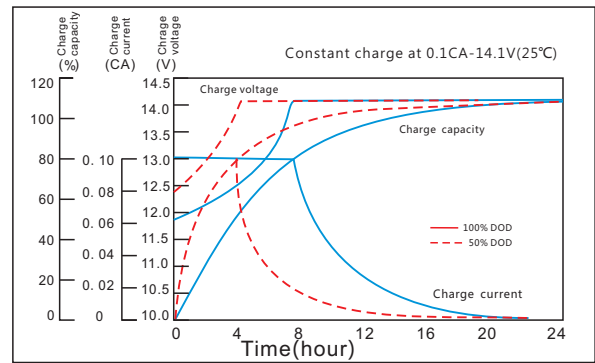
### Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	390	233	143	81.8	59.7	40.0	26.9	22.4	12.1
1.65V	383	231	141	81.6	58.9	39.7	26.7	22.2	12.0
1.70V	379	231	140	81.2	58.6	39.4	26.6	22.0	12.0
1.75V	376	230	139	80.8	58.3	39.2	26.3	21.7	11.9
1.80V	356	225	138	80.6	58.1	38.7	26.1	21.5	11.9
1.85V	318	206	128	76.9	55.2	37.0	25.2	21.2	11.8

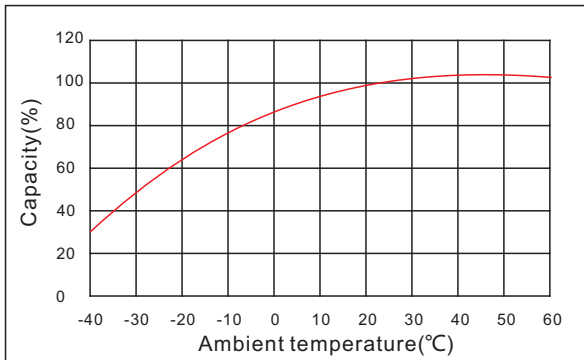
Discharge characteristic



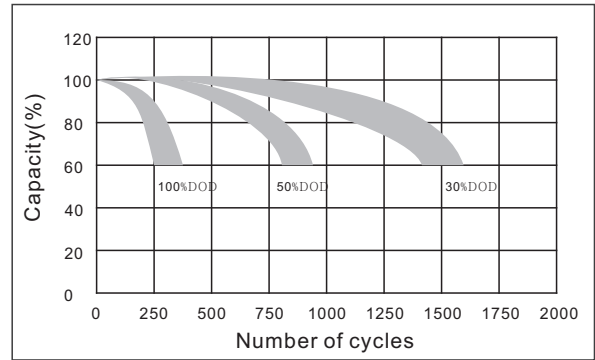
Charging characteristic



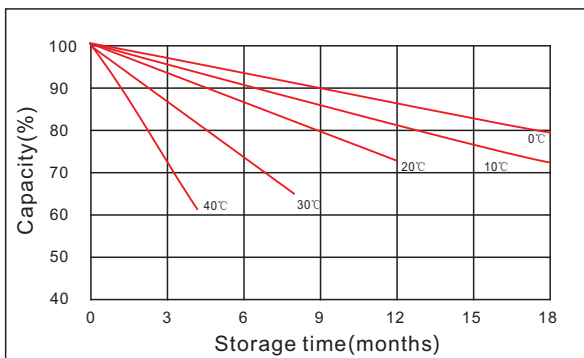
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

