



Applications

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

Specification

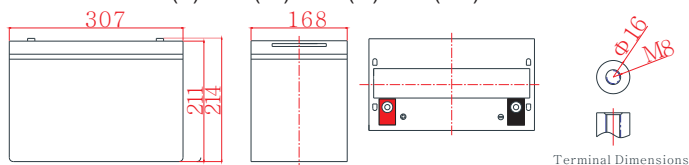
Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 29.0kg (63.9lbs)
Container Material	ABS
Rated Capacity	100Ah 20Hour Rate (5.00A to 10.5V)
	74.1Ah 3Hour Rate (24.7A to 10.5V)
	61.4Ah 1Hour Rate (61.4A to 9.60V)
Internal resistance	Full charged at 25°C: 5.5 mΩ
Max. Discharge Current	1080A(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. 22.5A ; Recom.9.0A
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

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:307(L)×168(W) ×211(H)×214(TH) Unit: mm



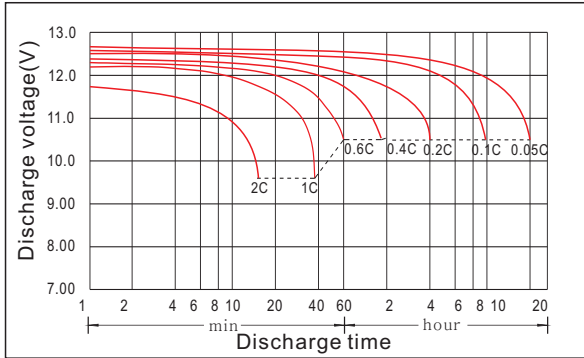
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	171	104	61.4	35.2	25.6	17.2	11.3	9.63	5.07
1.65V	166	102	61.1	35.0	25.3	17.0	11.2	9.54	5.05
1.70V	162	100	60.6	34.8	24.9	16.8	11.1	9.45	5.02
1.75V	157	100	59.7	34.2	24.7	16.6	11.0	9.36	5.00
1.80V	146	95.2	58.2	33.6	24.5	16.2	10.9	9.31	4.97
1.85V	130	86.9	53.9	31.9	23.1	15.4	10.5	8.99	4.89

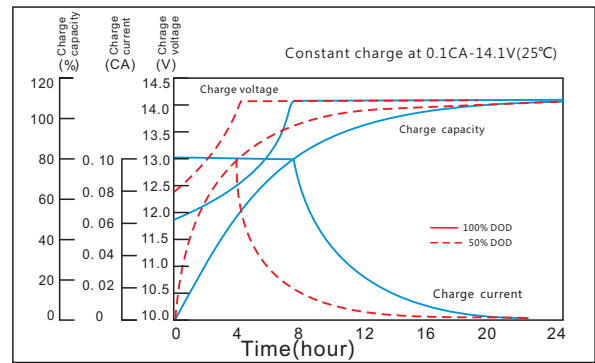
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

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

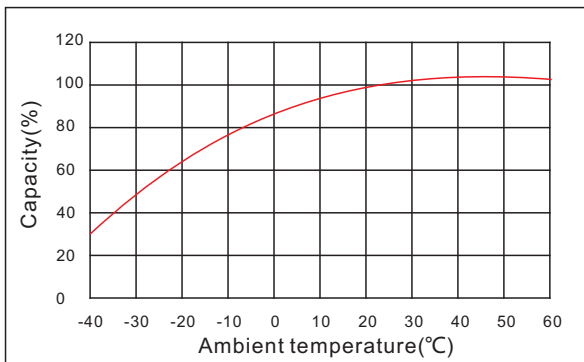
Discharge characteristic



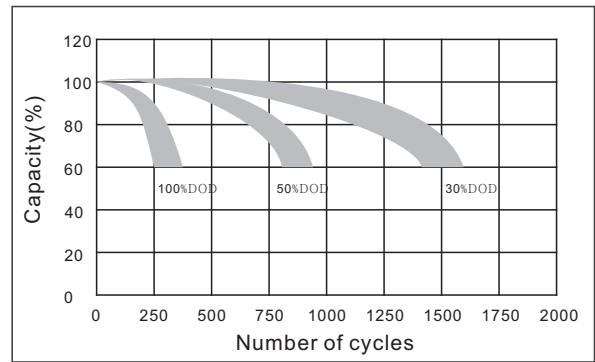
Charging characteristic



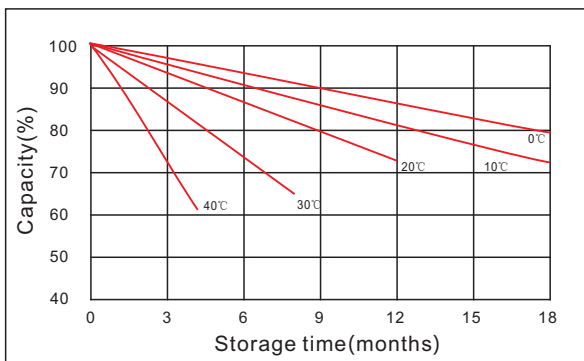
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

