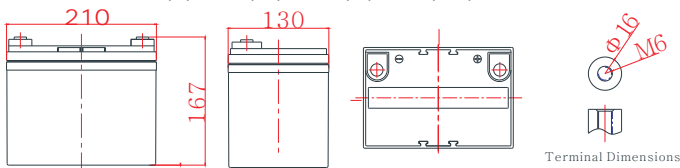


General Features

- > 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: 210(L)×130(W)×167(H)×167(TH) Unit: mm



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	35Ah
Design life	10years
Terminal	M6
Approx. Weight	Approx 10.0kg (22.0lbs)
Container Material	ABS
Rated Capacity	35.0Ah 20Hour Rate (1.75A to 10.5V)
	25.9Ah 3Hour Rate (8.64A to 10.5V)
	21.7Ah 1Hour Rate (21.7A to 9.60V)
Internal resistance	Full charged at 25°C: 13.0 mΩ
Max. Discharge Current	400A(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. 8.75A ; Recom.3.50A
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

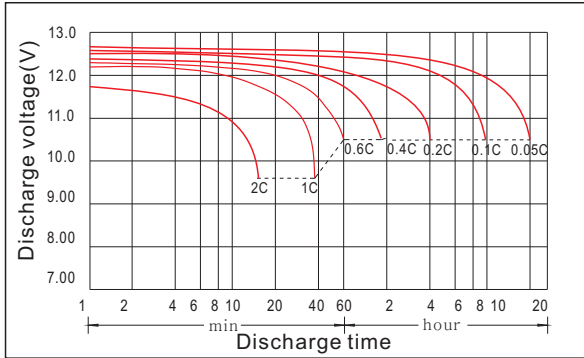
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	60.3	36.7	21.7	12.4	9.01	6.06	3.97	3.39	1.79
1.65V	58.5	36.0	21.5	12.3	8.93	5.99	3.94	3.36	1.78
1.70V	57.2	35.4	21.4	12.2	8.80	5.93	3.91	3.33	1.77
1.75V	55.3	35.1	21.1	12.0	8.71	5.86	3.88	3.30	1.76
1.80V	51.6	33.6	20.5	11.8	8.64	5.71	3.85	3.28	1.75
1.85V	46.0	30.6	19.0	11.2	8.14	5.42	3.69	3.16	1.72

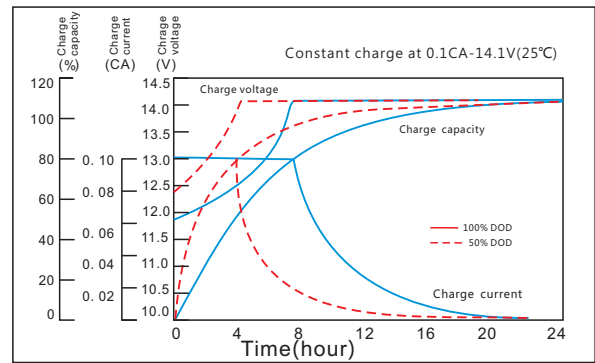
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

F.V/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	106	66.4	41.0	23.5	17.1	11.4	7.72	6.54	3.54
1.65V	104	65.8	40.7	23.4	16.9	11.4	7.66	6.47	3.52
1.70V	103	65.8	40.3	23.4	16.8	11.3	7.63	6.41	3.50
1.75V	102	65.5	40.0	23.2	16.7	11.2	7.56	6.34	3.49
1.80V	96.9	63.9	39.7	23.2	16.7	11.1	7.50	6.27	3.47
1.85V	86.6	58.5	36.8	22.1	15.8	10.6	7.25	6.18	3.44

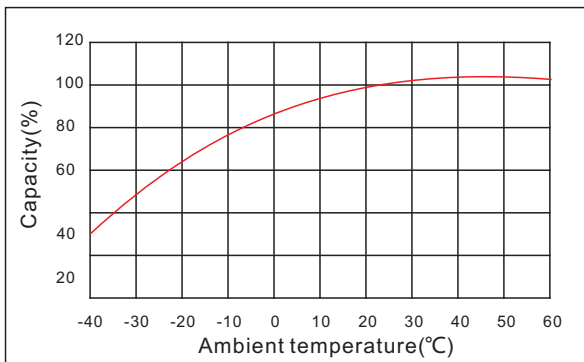
Discharge characteristic



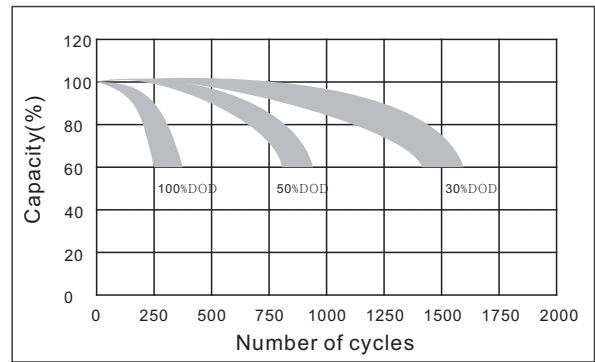
Charging characteristic



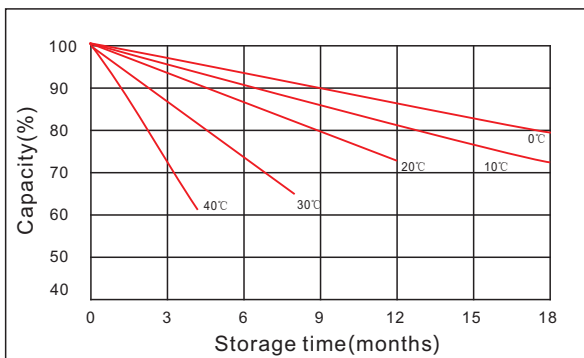
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

