



Applications

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

Specification

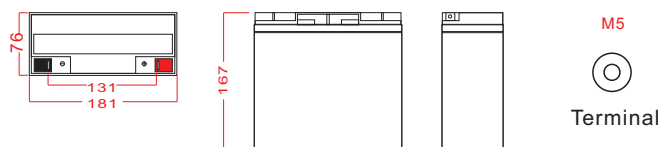
Nominal Voltage	12V
Nominal Capacity	22Ah
Design life	5 years
Terminal	M5
Approx. Weight	Approx 5.8kg (12.8lbs)
Container Material	ABS
Rated Capacity	22Ah 20Hour Rate(1.125A to 10.5V)
	17.6Ah 3Hour Rate (5.828A to 10.5V)
	14.6Ah 1Hour Rate (14.85A to 9.60V)
Internal resistance	Full charged at 25°C: 18.0 mΩ
Max. Discharge Current	330A(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. 5.5A ; Recom.2.2A
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: 181(L)×76(W)×167(H)×167(TH) Unit: mm



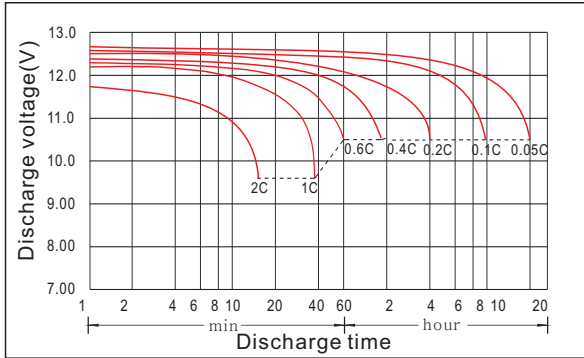
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	58.28	43.43	28.46	14.85	8.505	6.210	4.973	4.230	2.790	2.228	1.193
1.65V	55.80	39.83	27.02	13.95	8.168	6.030	4.815	4.140	2.745	2.205	1.170
1.70V	52.43	37.13	26.19	13.50	8.010	5.918	4.568	4.095	2.700	2.160	1.148
1.75V	49.95	34.65	25.58	13.03	7.808	5.828	4.500	3.915	2.633	2.115	1.125
1.80V	47.03	32.18	24.75	12.58	7.605	5.513	4.410	3.758	2.565	2.070	1.100

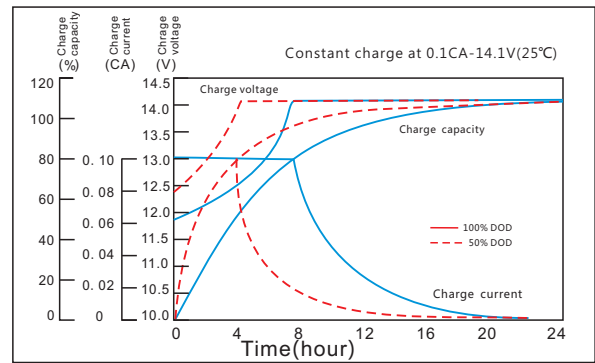
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	105.0	79.50	48.08	27.23	15.94	11.74	9.413	7.988	5.265	4.316	2.363
1.65V	99.38	74.63	47.74	25.61	15.34	11.40	9.113	7.838	5.186	4.234	2.299
1.70V	96.38	71.25	47.59	24.83	15.04	11.21	8.663	7.613	5.134	4.200	2.280
1.75V	93.38	68.63	47.10	24.11	14.70	11.06	8.550	7.463	4.924	4.103	2.231
1.80V	90.38	65.63	46.76	23.78	14.59	10.76	8.475	7.275	4.759	4.020	2.216

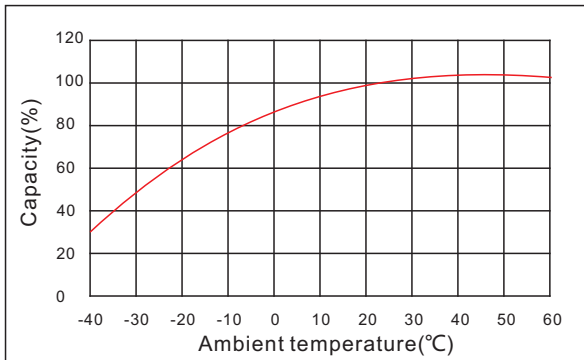
Discharge characteristic



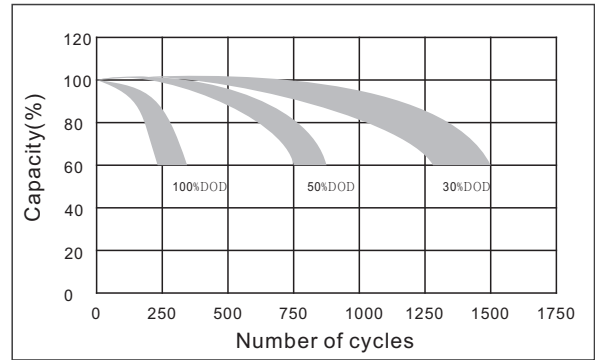
Charging characteristic



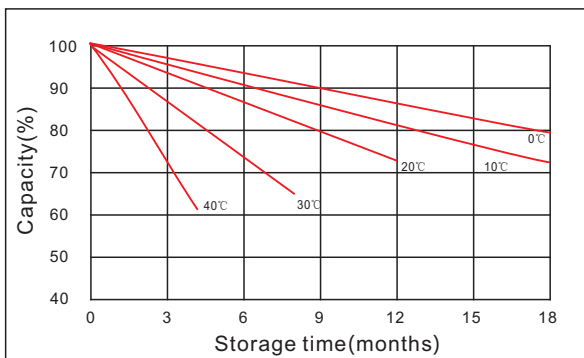
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

