



APPLICATIONS

- Electric Vehicles, Electric Wheelchairs
- UPS/EPS – Power Systems
- Electric scooters
- Emergency lighting, Auto control system
- Other general purpose

GENERAL FEATURES

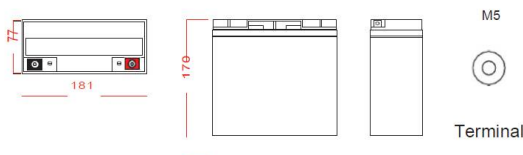
- Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- Long cycle life, excellent deep cycle discharge ability
- Excellent charge acceptance ability
- Precision sealing technology
- Long life 12 years

SPECIFICATIONS

Nominal Voltage	12V
Nominal Capacity	20Ah
Design life	12 years
Terminal	M5
Approx. Weight	Approx 6.85kg (15.02lbs)
Container Material	ABS
Rated Capacity	25.6Ah 10Hour Rate (2.56A to 10.8V)
	20.0Ah 3Hour Rate (10.0A to 10.8V)
	17.4Ah 1Hour Rate (17.4A to 10.5V)



Dimension: 181(L)×77(W)×170(H)×170(TH) Unit: mm



Operating Temperature
 Discharge: -20 ~ 50°C (-4 ~ 122°F)
 Charge: -20 ~ 50°C (-4 ~ 122°F)
 Storage: -20 ~ 50°C (-4 ~ 122°F)

Charge method (25°C)
 Charge current: Max. 3.0A
 Float Charge: 13.7-13.9V@25°C
 Cycle charge: 14.7-14.9V,@25°C

Self discharge 3% of capacity declined per month at 25°C

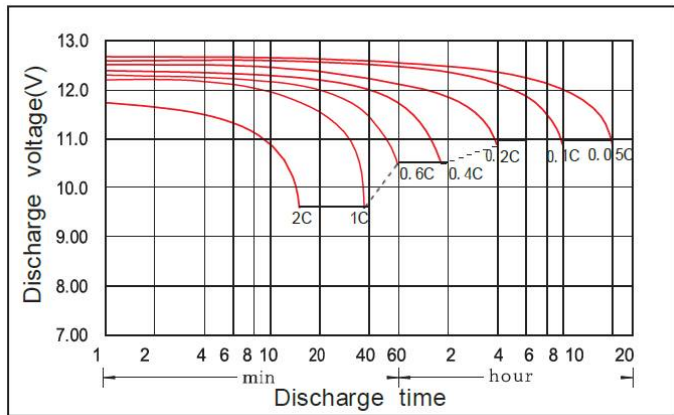
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	50.3	30.6	17.9	10.3	7.60	5.00	3.20	2.63	1.38
1.65V	48.8	30.1	17.8	10.2	7.52	4.95	3.18	2.61	1.37
1.70V	47.7	29.5	17.7	10.1	7.42	4.89	3.15	2.58	1.37
1.75V	46.2	29.3	17.4	10.0	7.34	4.84	3.13	2.56	1.36
1.80V	43.0	28.0	16.9	9.79	7.28	4.71	3.10	2.53	1.35
1.85V	38.4	25.6	15.7	9.29	6.86	4.48	2.97	2.45	1.33

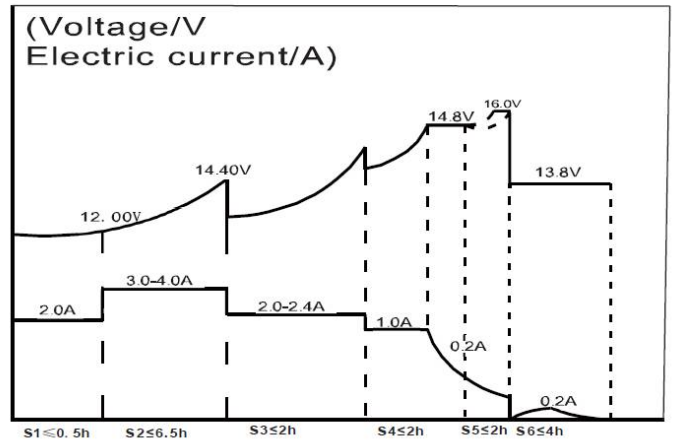
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	88.6	55.3	33.8	19.4	14.5	9.48	6.23	5.06	2.73
1.65V	87.0	54.8	33.6	19.3	14.3	9.42	6.17	5.01	2.72
1.70V	86.0	54.8	33.3	19.3	14.2	9.35	6.15	4.96	2.71
1.75V	85.5	54.6	33.0	19.2	14.1	9.29	6.10	4.91	2.69
1.80V	80.8	53.3	32.8	19.1	14.1	9.19	6.05	4.86	2.68
1.85V	72.2	48.8	30.4	18.2	13.4	8.77	5.84	4.78	2.66

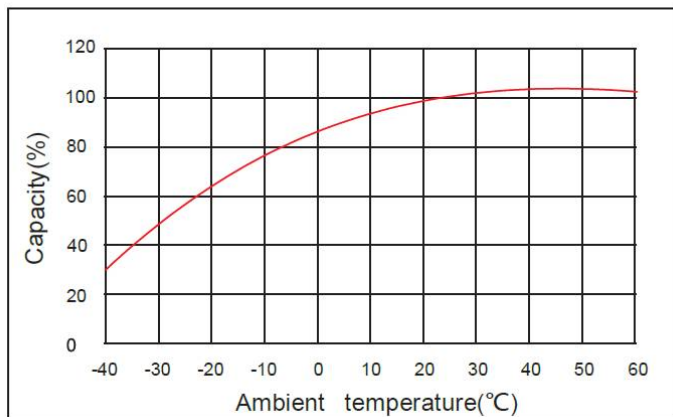
Discharge characteristic



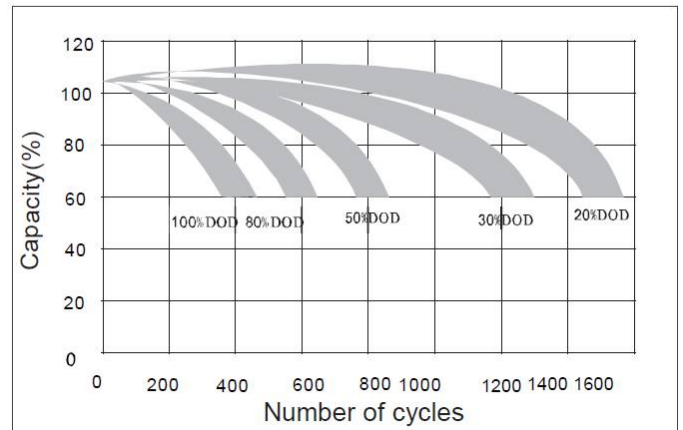
Charging characteristic



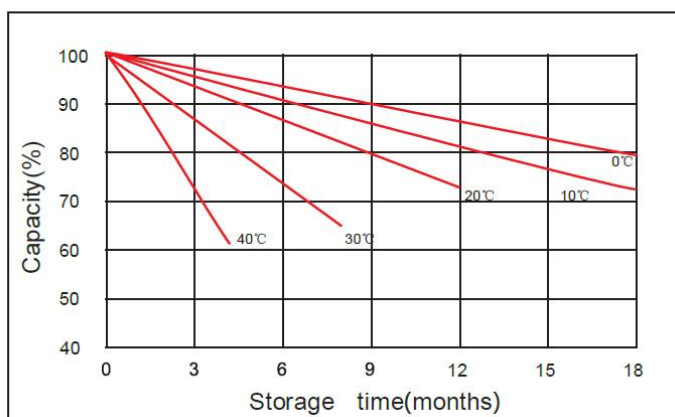
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

