



## APPLICATIONS

- Solar/wind generating storage cyclic
- UPS/EPS – Power Systems
- Telecommunications system
- Emergency lighting, Auto control system
- Other general purpose

## GENERAL FEATURES

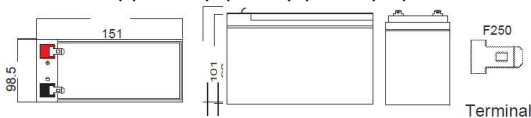
- Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- Long cycle life, excellent deep cycle discharge ability  
Excellent charge acceptance ability
- Precision sealing technology
- Long life 5-6 years

## SPECIFICATIONS

Nominal Voltage	12V
Nominal Capacity	14Ah
Design life	5-6 years
Terminal	F250
Approx. Weight	Approx 3.80kg (8.38lbs)
Container Material	ABS
Rated Capacity	14.0Ah 10Hour Rate (0.70A to 10.5V)
	10.9Ah 3Hour Rate (3.63A to 10.5V)
	9.24Ah 1Hour Rate (9.24A to 9.60V)
Internal resistance	Full charged at 25°C: 18.0 mΩ
Max. Discharge Current	210A(5S)



Dimension: 151(L)×98.5(W)×96(H)×101(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.350A ; Recom.1.40A  
 Float Charge: 13.5-13.8V, recom.13.5V(-18mV/ °C)  
 Cycle charge: 14.4-15.0V, recom.14.4V(-30mV/ °C)

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

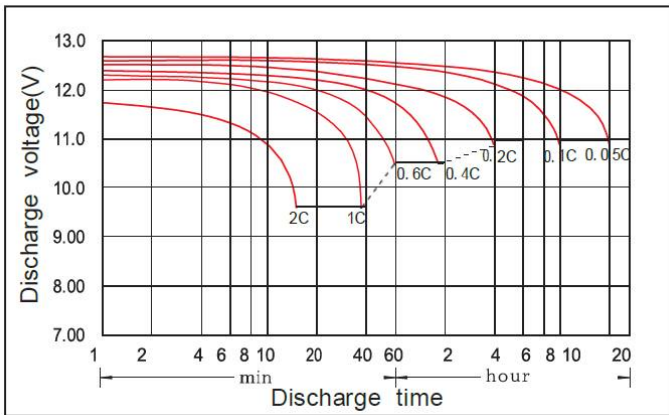
## Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	27.0	17.7	9.24	5.29	3.86	2.63	1.74	1.39	0.742
1.65V	24.8	16.8	8.68	5.08	3.75	2.58	1.71	1.37	0.728
1.70V	23.1	16.3	8.40	4.98	3.68	2.55	1.68	1.34	0.714
1.75V	21.6	15.9	8.11	4.86	3.63	2.44	1.64	1.32	0.700
1.80V	20.0	15.4	7.83	4.73	3.43	2.34	1.60	1.29	0.672

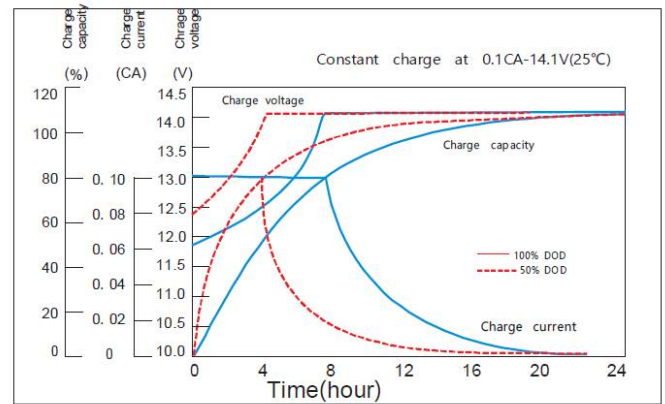
## Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	49.5	29.9	16.9	9.92	7.30	4.97	3.28	2.69	1.47
1.65V	46.4	29.7	15.9	9.54	7.09	4.88	3.23	2.63	1.43
1.70V	44.3	29.6	15.4	9.36	6.98	4.74	3.19	2.61	1.42
1.75V	42.7	29.3	15.0	9.15	6.88	4.64	3.06	2.55	1.39
1.80V	40.8	29.1	14.8	9.08	6.70	4.53	2.96	2.50	1.38

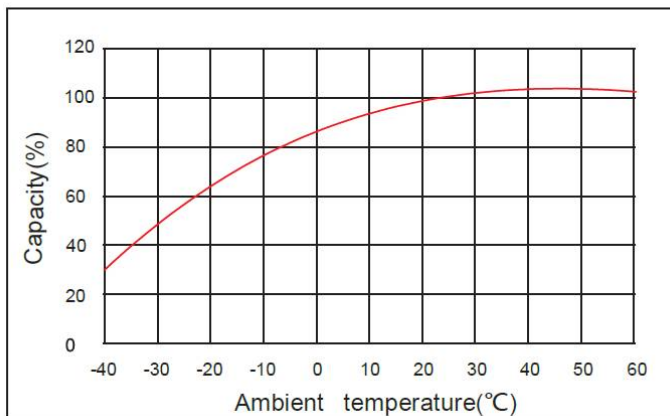
## Discharge characteristic



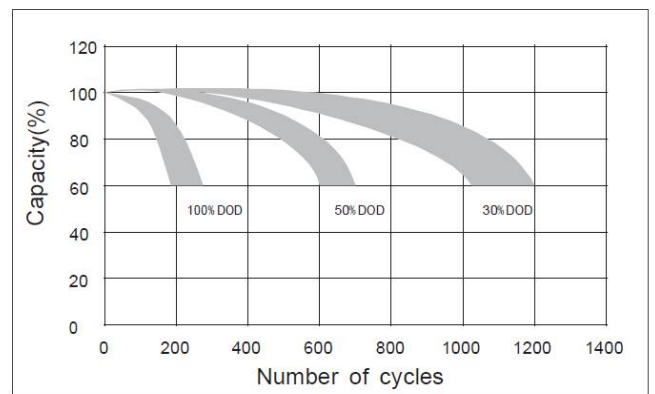
## Charging characteristic



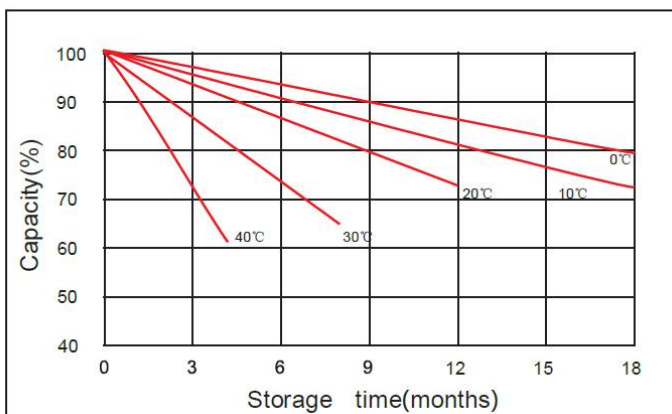
## The effect of temperature on capacity



## The effect of discharge depth on cycle life



## Curves of self-discharge



## The effect of temperature on float life

