

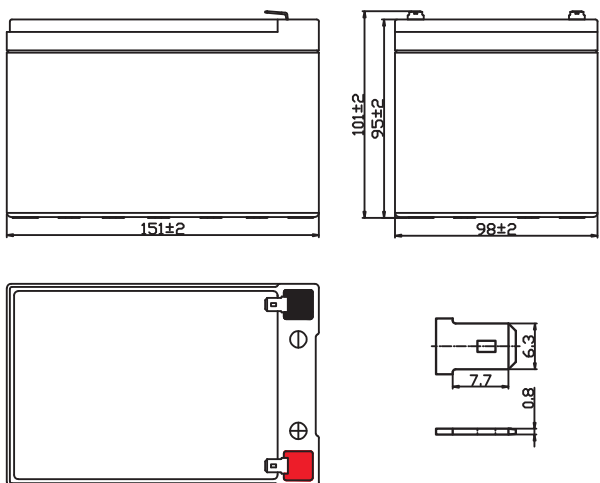
Container Color  
 Black C  
 Grey 3 C



## Parameter

Rated Voltage	12V	
Nominal Capacity(25°C)	14 Ah (C <sub>20</sub> , 10.5V)	
Dimension	Length	151±2mm(5.94 inch)
	Width	98±2mm(3.86 inch)
	Container Height	95±2mm(3.74 inch)
	Total Height	101±2mm(3.98 inch)
Weight±3%	3.54Kg(7.80 lbs)	
Terminal	F2	
Container Material	ABS	
Rated Capacity(25°C)	13.20Ah	(5HR,2.25A,10.5V)
	11.80Ah	(3HR,3.35A,10.2V)
	9.80Ah	(1HR,7.80A,9.6V)
Full charged Internal Resistance(25°C)	Approx.15mΩ	
Operating Temp.Range	Discharge	-20°C~50°C(-4°F~122°F)
	Charge	-20°C~40°C(-4°F~104°F)
	Storage	-20°C~40°C(-4°F~104°F)
Nominal Operating Temp.Range	25±3°C(77±5°F)	
Max.Charging Current(25°C)	3.6A	
Charge Voltage(25°C)	Cycle	14.5~14.9V
	Temp. Coefficient	-30mV/°C
	Float	13.6~13.8V
	Temp. Coefficient	-18mV/°C
Self Discharge(25°C)	≤3% per month	

## Plane Chart:



## Constant Current Discharge Characteristics (A, 25°C)

F.V./Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	47.6	31.5	23.6	18.7	14.3	7.80	4.42	3.45	2.71	2.35	1.53	1.26	0.665
10.02V	45.2	29.3	22.5	18.0	13.9	7.65	4.38	3.37	2.66	2.32	1.50	1.25	0.660
10.20V	44.7	28.6	22.2	17.7	13.7	7.60	4.35	3.35	2.64	2.30	1.49	1.24	0.655
10.50V	42.6	26.7	21.3	17.1	13.1	7.40	4.27	3.31	2.58	2.25	1.46	1.22	0.650
10.80V	40.8	25.2	20.4	16.5	12.7	7.20	4.20	3.25	2.52	2.20	1.43	1.20	0.645

## Constant Current Discharge Characteristics (Watt, 25°C)

F.V./Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	502.2	338.6	257.7	204.8	158.7	88.0	50.6	40.4	31.8	27.6	18.2	15.0	7.94
10.02V	479.1	317.9	268.2	197.1	154.3	86.4	50.4	39.5	31.3	27.4	17.8	14.9	7.88
10.20V	478.3	311.7	242.4	194.5	152.1	86.2	50.0	39.4	31.0	27.2	17.7	14.7	7.82
10.50V	460.1	292.4	233.9	188.1	146.2	83.9	49.4	38.9	30.3	26.6	17.3	14.5	7.76
10.80V	445.5	277.2	224.0	182.3	141.7	82.1	48.6	38.4	29.6	26.1	17.0	14.3	7.70

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

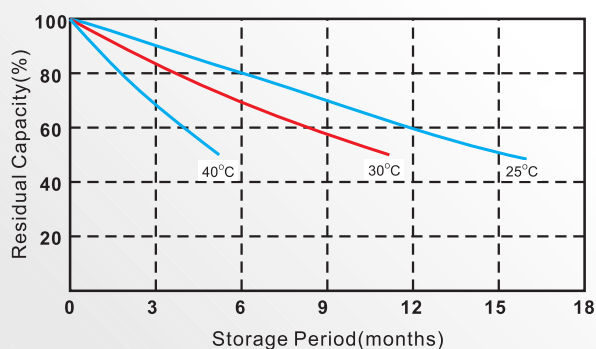
## Application scope

- Energy storage system
- Solar and wind energy systems
- Uninterruptable Power Supply(UPS)
- Data Network & Operation Centers

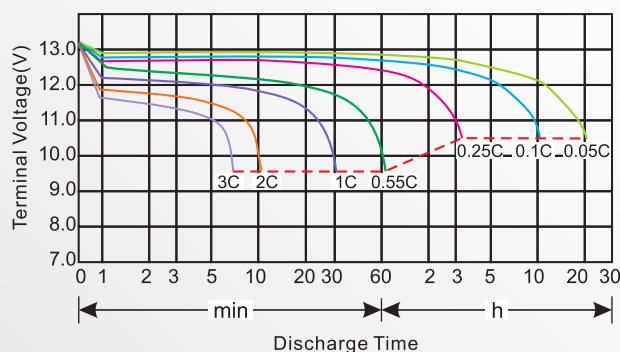
- Emergency Power Supply(EPS)
- Hospitals & Testing Laboratories
- Banks & Financial Markets
- Security alarm system



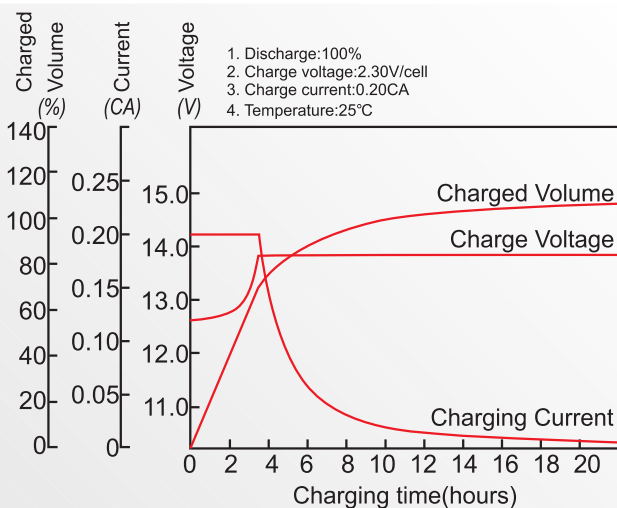
## Residual Capacity



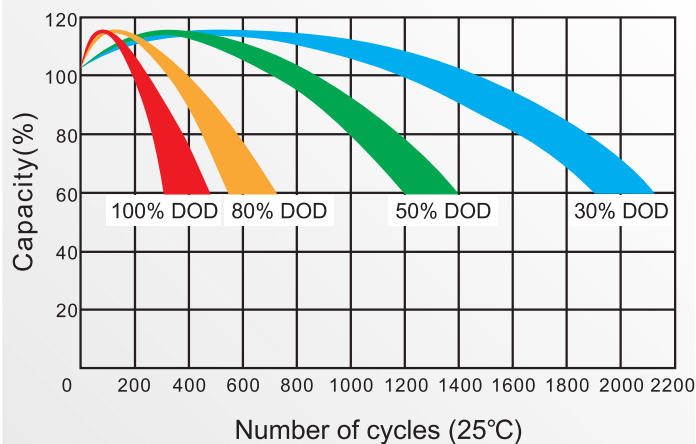
## Discharge Current 25°C



## Constant voltage charging characteristics



## Cycle service life in relation to the depth of discharge



## Capacity Factors With Different Temperature

-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

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