

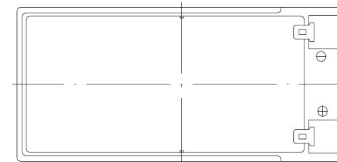
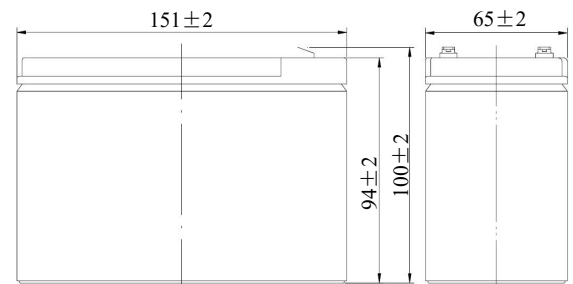
**Specification**

Nominal voltage	12V	
Capacity (25°C)	20HR(10.5V)	7Ah
	10HR(10.5V)	6.6Ah
	1HR(9.6V)	4.58Ah
Dimension	Length	151±2mm
	Width	65±2mm
	Height	94±2mm
	Total height	100±2mm
Approx. weight	2.11kg±4%	
Internal resistance (Fully charged,25°C)	Approx. 28mΩ	
Capacity affected by temperature(10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge(25°C)	3 months	Remaining capacity 91%
	6 months	Remaining capacity 82%
	12 months	Remaining capacity 65%
Nominal operating temperature	25±3°C	
Operating temperature range	Discharge	-15°C~50°C
	Charge	-10°C~50°C
	Storage	-20°C~50°C
Float charge voltage(25°C)	13.5V to 13.8V temperature compensation: -18mV/°C	
Cycle charge voltage(25°C)	14.5V to 14.9V temperature compensation: -30mV/°C	
Maximum charge current	2.1A	
Terminal & material	F1 / F2; Copper	
Maximum discharge current	105A(5s)	
Designed floating life(20°C)	10 years	

**Feature:** Absorbent Glass Mat technology  
ABS container; Battery recognized by CE  
Sealed and Maintenance-free Operation

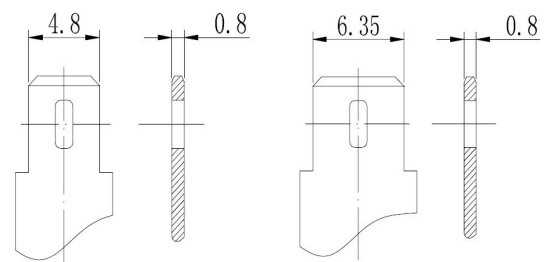


**Dimension:**



**Terminal:** F1 terminal

F2 terminal



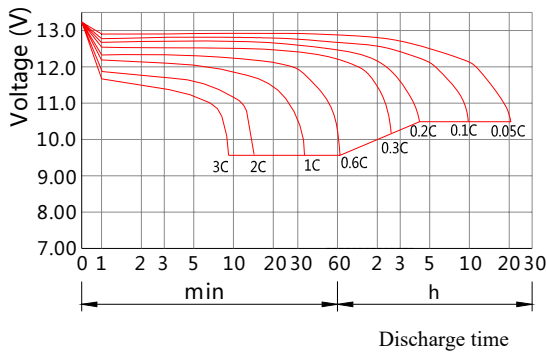
**Constant Current discharge characteristics(A,25°C)**

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	26.8	16.9	13.4	7.47	4.58	2.50	1.80	1.44	1.22	0.67	0.36
9.90V	26.0	16.4	13.1	7.32	4.51	2.49	1.79	1.43	1.22	0.66	0.36
10.2V	24.9	15.7	12.6	7.10	4.40	2.47	1.77	1.42	1.21	0.66	0.35
10.5V	23.8	15.1	12.2	6.93	4.31	2.43	1.76	1.41	1.20	0.66	0.35
10.8V	22.5	14.2	11.5	6.67	4.18	2.37	1.71	1.37	1.16	0.64	0.35

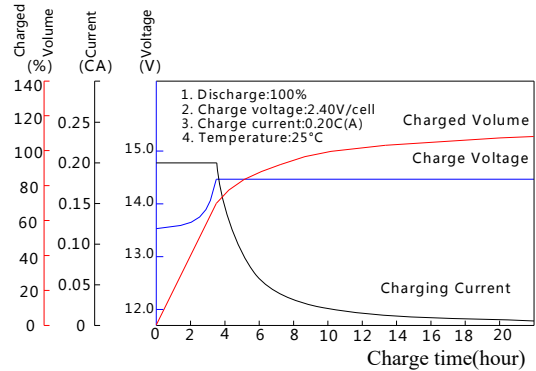
**Constant Power discharge characteristics(W,25°C)**

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	299	191	153	85.6	53.1	29.3	21.4	17.1	14.6	7.99	4.29
9.90V	290	185	149	83.9	52.3	29.1	21.2	17.0	14.5	7.95	4.28
10.2V	278	177	144	81.4	50.9	28.9	21.1	16.9	14.4	7.92	4.26
10.5V	266	170	139	79.4	49.9	28.4	20.9	16.8	14.3	7.87	4.23
10.8V	251	160	131	76.5	48.4	27.7	20.3	16.3	13.9	7.71	4.15

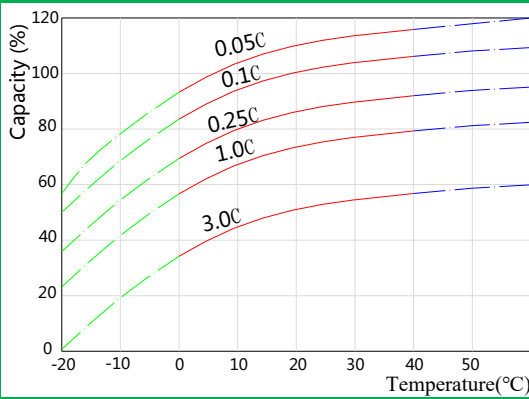
## Discharge Characteristics(25°C)



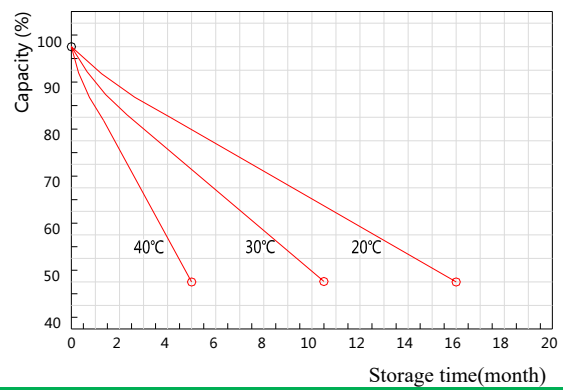
## Charging Characteristics(25°C)



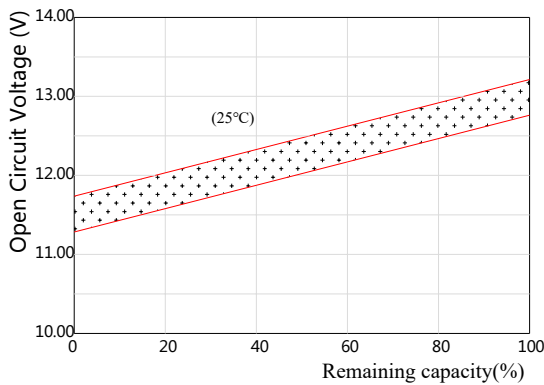
## Effect of Temperature on Capacity



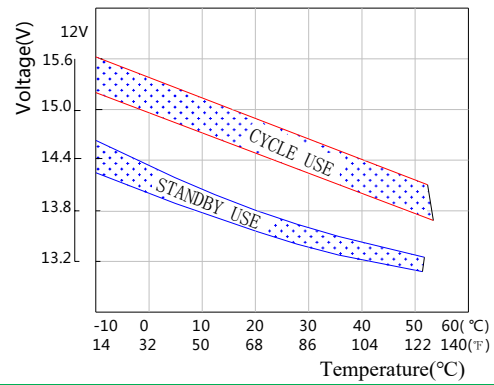
## Self-discharge Characteristics



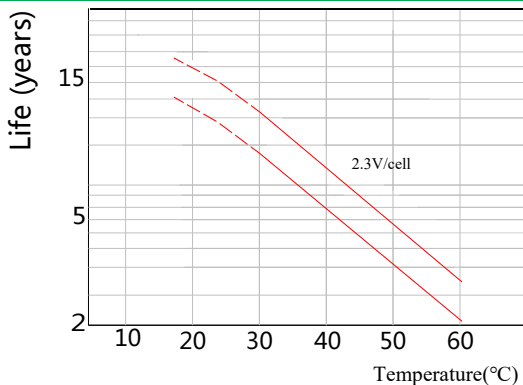
## The Relationship of Open Circuit Voltage and Remaining Capacity (25°C)



## The Relationship of Charge Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D(25°C)

