

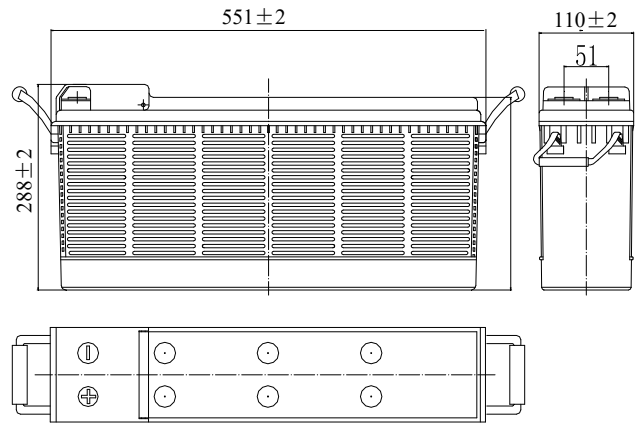
**Specification**

Nominal voltage	12V	
Capacity (20°C)	10HR(10.8V)	150Ah
	5HR(10.5V)	130Ah
	1HR(9.6V)	92Ah
Dimension	Length	551±2mm
	Width	110±2mm
	Height	288±2mm
	Total height	288±2mm
Approx. weight	45.5kg	
Internal resistance (Fully charged,20°C)	Approx. 4.2mΩ	
Capacity affected by temperature(10HR)	40°C	105%
	25°C	100%
	0°C	90%
	-15°C	65%
Self-discharge(20°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(20°C)	13.5V to 13.8V temperature compensation: -18mV/°C	
Cycle charge voltage(20°C)	14.3V to 14.9V temperature compensation: -30mV/°C	
Maximum charge current	45A	
Number of cycles(100%DOD)	250	
Maximum discharge current	1200A(5s)	
Short circuit current	1800A(1600-2000A)	
Designed floating life(20°C)	15 years	

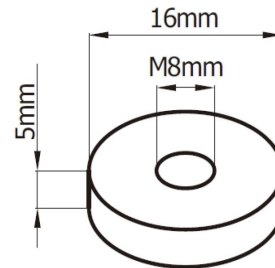
**Feature:** Absorbent Glass Mat technology  
Impact resistant ABS container  
Battery recognized by CE  
Sealed and Maintenance-free Operation



**Dimension:**



**Terminal:** F12 terminal



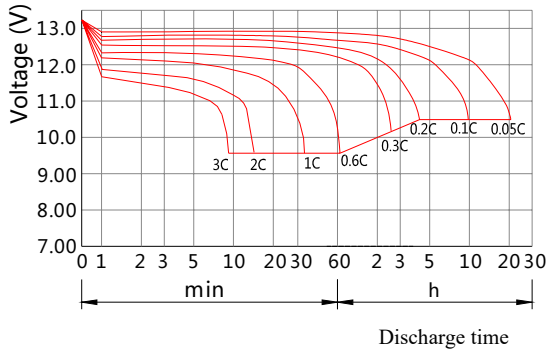
**Constant Current discharge characteristics(A,20°C)**

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	473	315	243	147	92.0	54.8	38.3	31.4	26.8	23.4	18.4	15.3	8.02
1.65V/cell	458	306	237	144	91.6	54.5	38.0	31.2	26.6	23.3	18.3	15.2	8.00
1.70V/cell	440	293	228	140	89.3	54.0	37.8	31.0	26.4	23.1	18.1	15.2	7.98
1.75V/cell	421	280	220	136	87.5	53.2	37.5	30.8	26.1	23.0	18.0	15.1	7.93
1.80V/cell	397	265	209	131	84.8	51.8	36.4	29.8	25.5	22.3	17.5	15.0	7.88

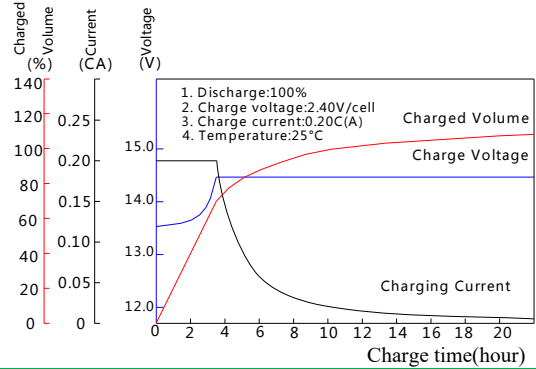
**Constant Power discharge characteristics(W,20°C)**

F.V/TIME	5min	10mi	15mi	30mi	60mi	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	827	567	453	275	177	106	75.0	61.5	52.7	46.2	36.3	30.3	16.0
1.65V/cell	802	550	442	269	174	105	74.5	61.2	52.5	45.8	36.2	30.3	16.0
1.70V/cell	769	527	426	261	170	104	74.0	60.7	52.0	45.5	35.8	30.2	16.0
1.75V/cell	736	505	411	255	166	103	73.5	60.3	51.7	45.2	35.7	30.0	15.9
1.80V/cell	695	476	390	246	161	100	71.3	58.5	50.2	43.8	34.5	29.8	15.8

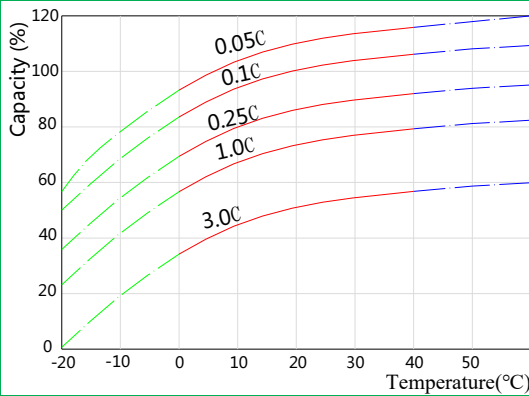
## Discharge Characteristics(20°C)



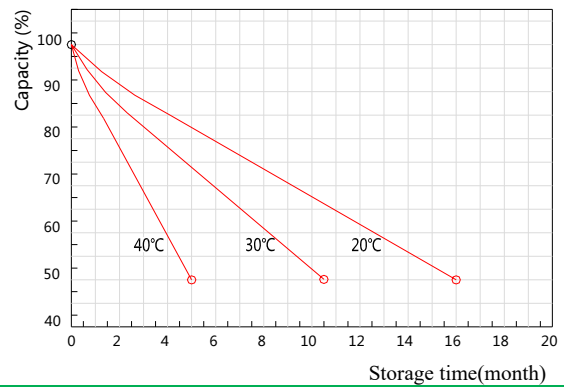
## Charging Characteristics(20°C)



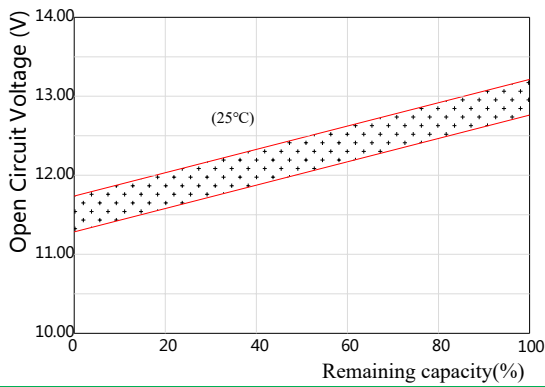
## Effect of Temperature on Capacity



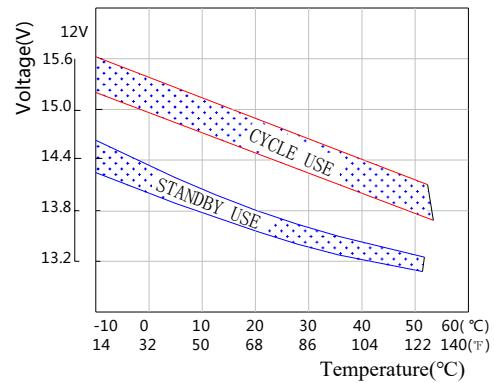
## Self-discharge Characteristics



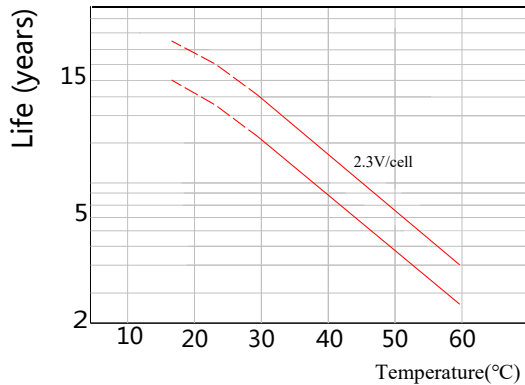
## The Relationship of Open Circuit Voltage and Remaining Capacity (20°C)



## The Relationship of Charge Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D(20°C)

