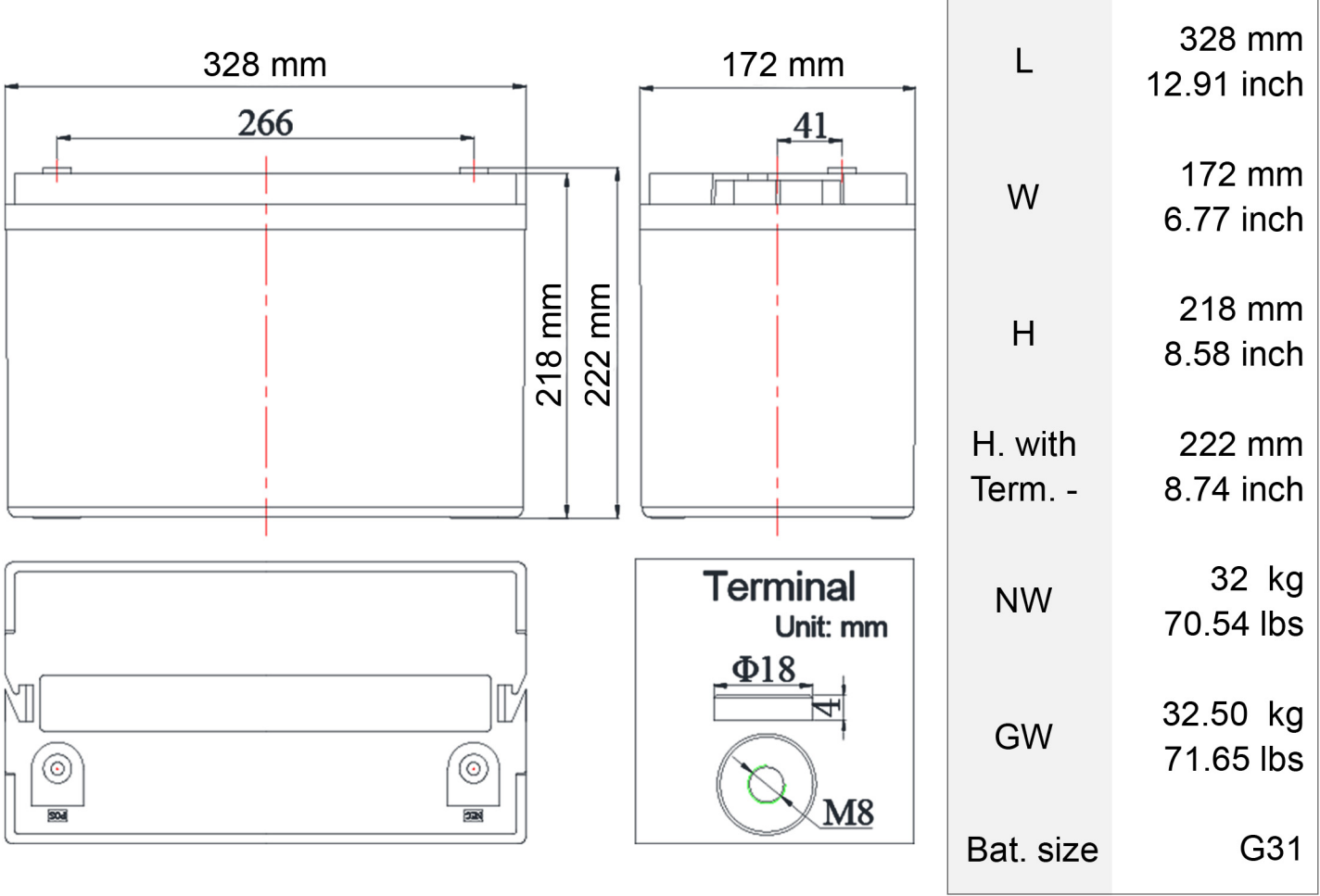




Detailed Illustration (size in mm)

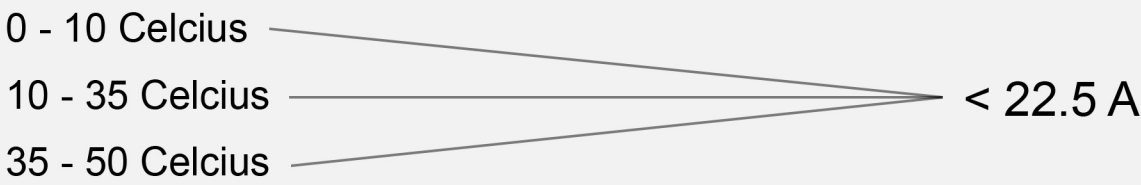


Volts	12Volt	Included Hardware	No
Battery	Lead Carbon Battery	Warranty	2 Years

Charge

Recommended Charge Voltage at 25°C	
Stand by / Back Up / Float Use	13.6 - 13.8V
Temperature Coefficient: 0.02V/°C	
Daily Cycle / Bulk / Boost	14.4 - 14.9V
Temperature Coefficient: 0.03V/°C	

Recommended Charge Current:



Maximum Charge Current Upto 100A (High charge current reduces battery life)

Surge Current Limit 1000A (5s)

Discharge Current VS Performance of Battery at 25°C			
Rated Discharge	Dis. Curr.	Battery Running Capacity	
Current Factor (c)	Amps (A)	Time in Hours	Amp Hour (Ah)
0.01	1.12	100	122
0.05	5	20	100
0.1	9.59	10	95.9
0.17	17.2	5	86
0.25	25.3	3	75.9
0.5	56.6	1	56.6
0.89	89	0.5	44.5
1.63	163.8	0.16 / 10 mins	27.3

As the Discharge Current Factor Increases, the battery service life decreases.
For optimal use, recommended depth of discharge <= 50% at 0.2c draw rate

Charge Temperature Range	-30°C ~ 60°C
Discharge Temperature Range	-30°C ~ 60°C
Storage Temperature Range	-30°C ~ 60°C
Self-Discharge at 25°C	2-3% every month

Relation Between SOC, Stand-By Voltage, Cycle Life & Depth of Discharge

SOC	Stand By Voltage (± 0.2V)	Cycle Life	
100%	13.6		0%
75%	12.6	4500	25%
50%	12.2	3000	50%
25%	11.5	2000	75%
0%	10.8	900	100%

SOC = State of Charge

DOD = Depth of Discharge

To have the battery serve its design life, we recommend to stop discharge at 12.2V

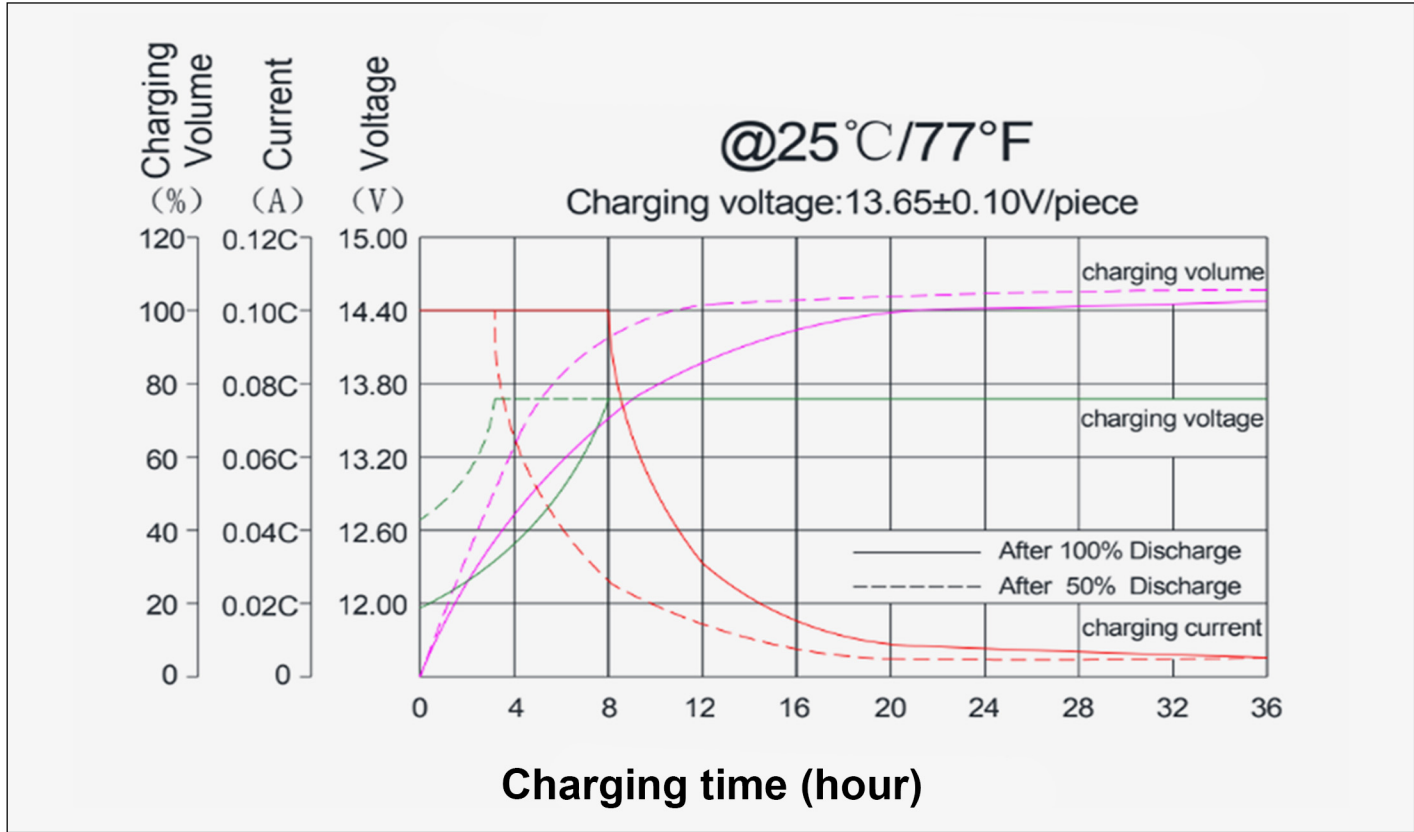
Capacity

Nominal Capacity	100Ah
Total Energy	1200WH
Nominal Voltage	12Volt
Battery Chemistry	Lead Carbon

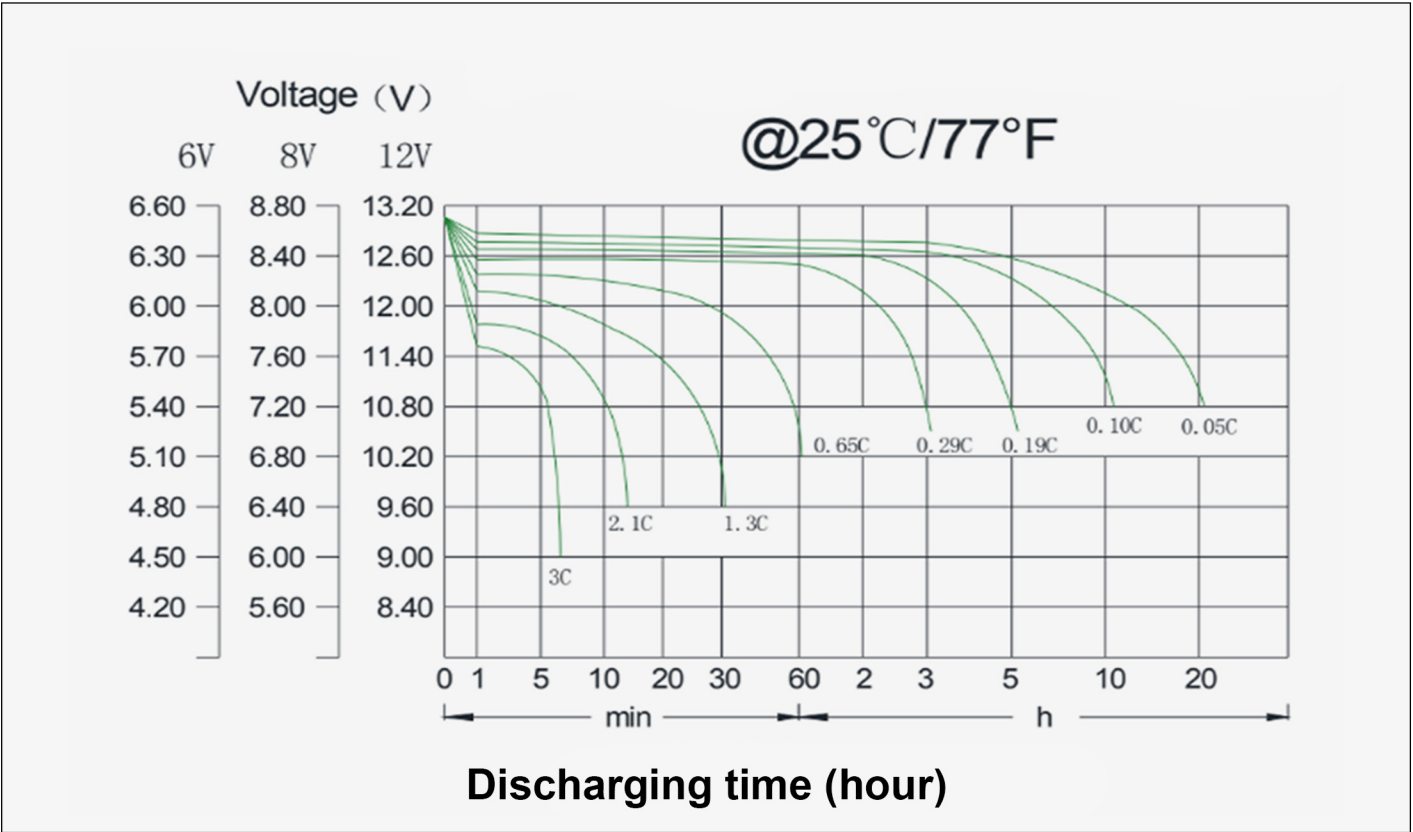
Design

Bluetooth (Yes Or No)	No
Heated (Yes Or No)	No
Container Material.	ABS
Cover Material.	ABS
Handles	Hemp rope
Series Connection	Unlimited
Parallel Connection	3
System Connection	XS3P (X= Unlimited)

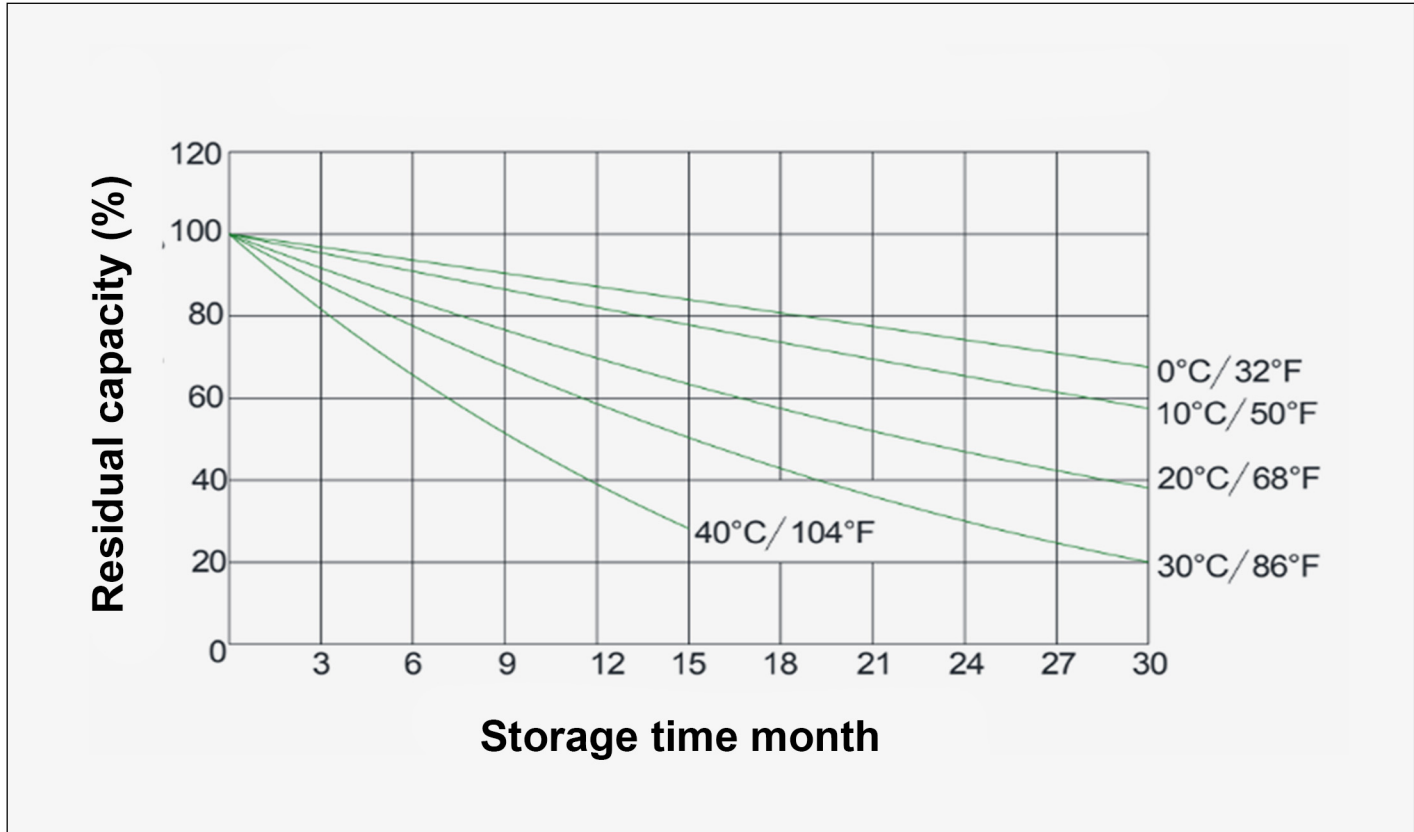
Charging Characteristics



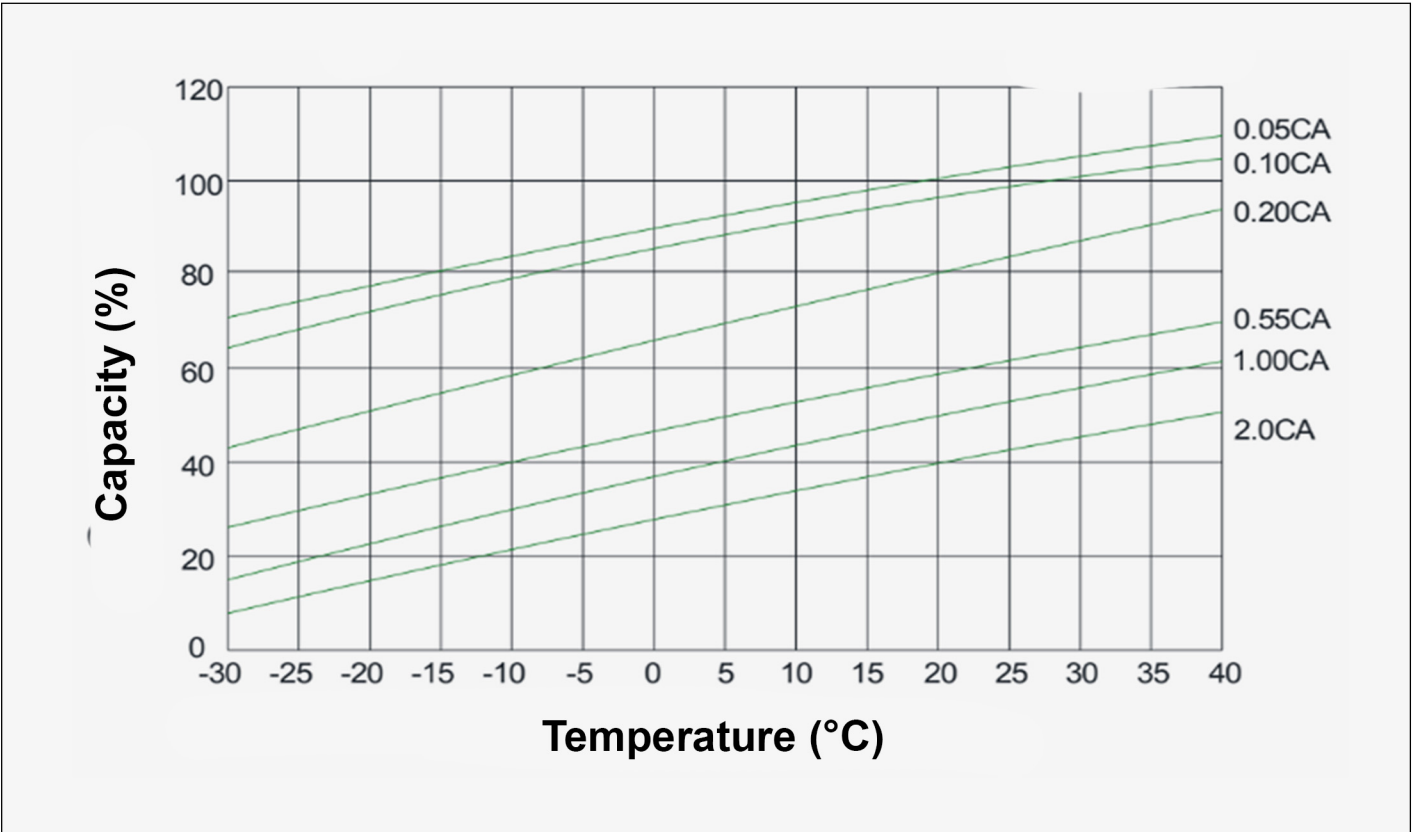
Discharge Characteristics



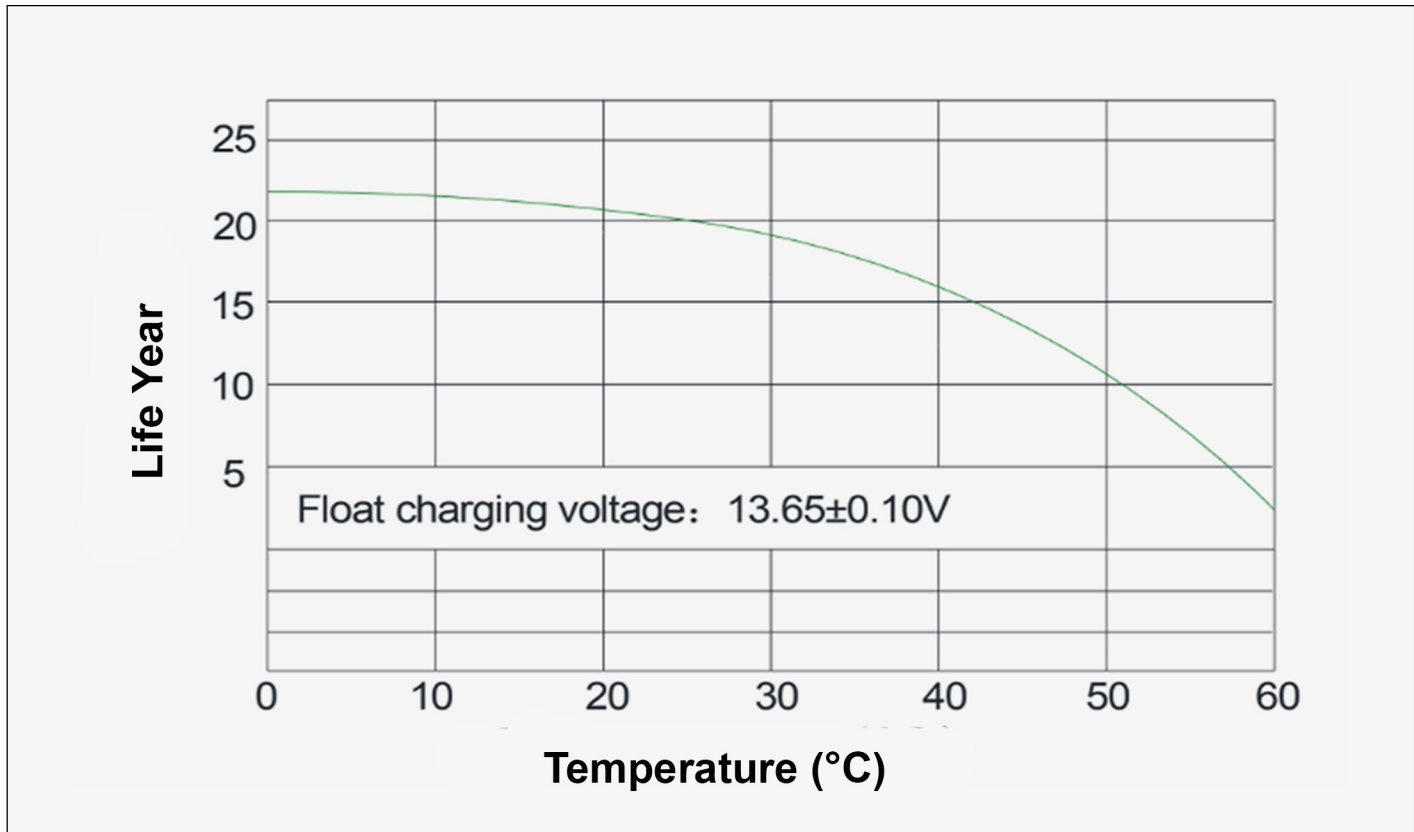
Temperature Effect on Battery Self Discharge



Temperature Effect on Capacity



Temperature Effect on Design Service Life



Cycle Life In Relation to Depth of Discharge

