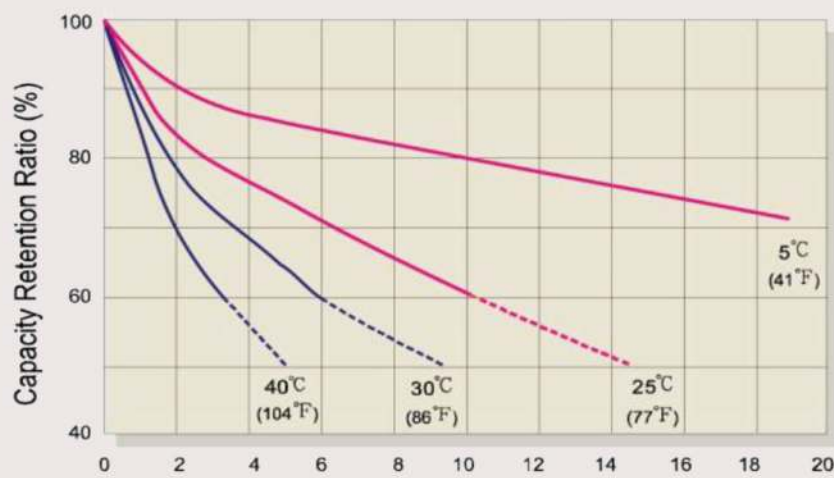
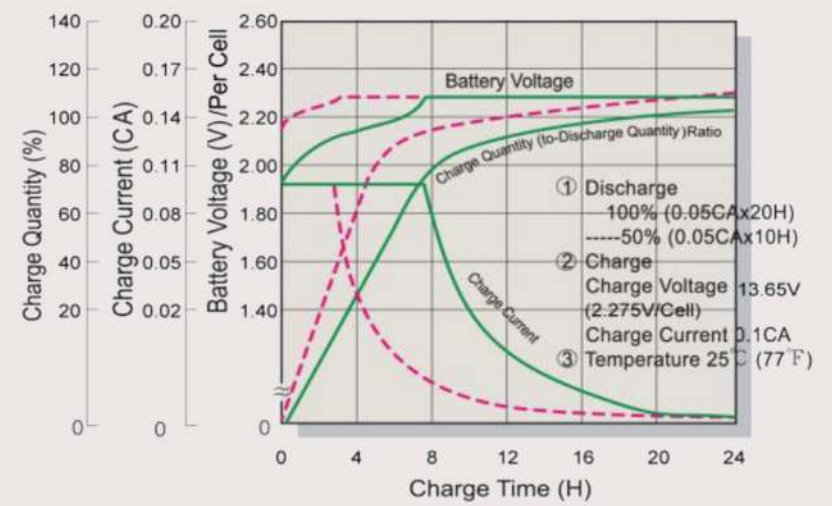


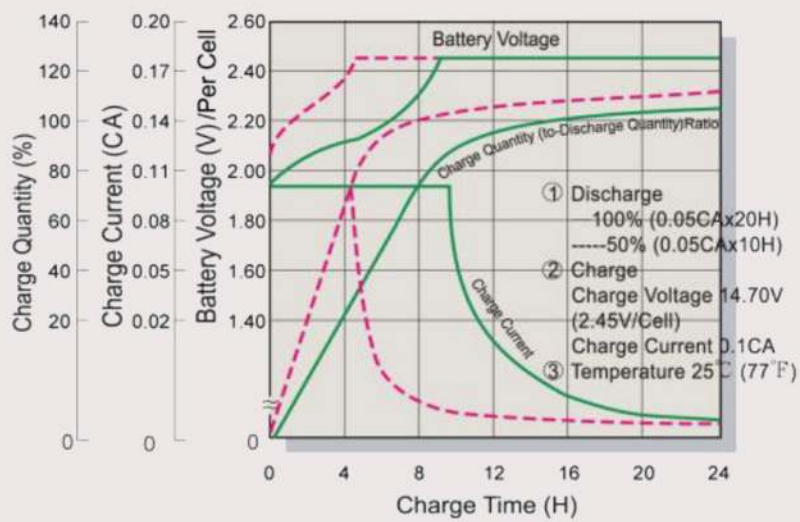
Capacity Retention Characteristic



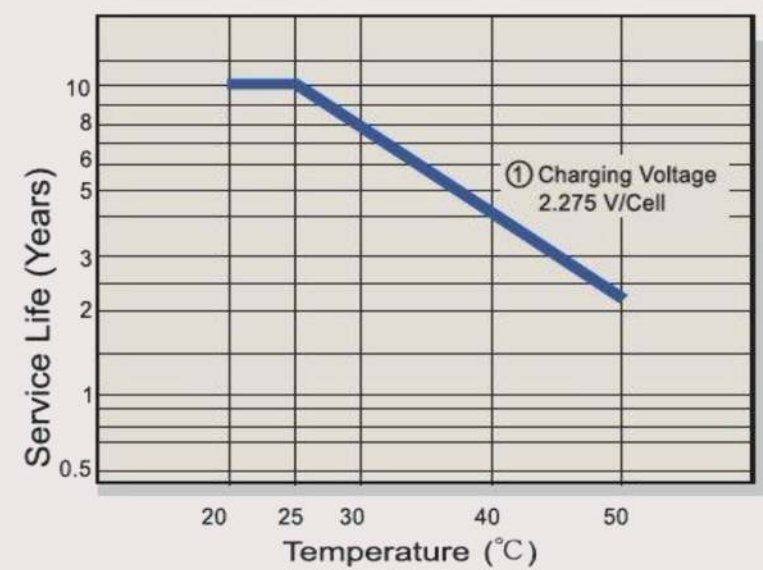
Battery Voltage and Charge Time for Standby



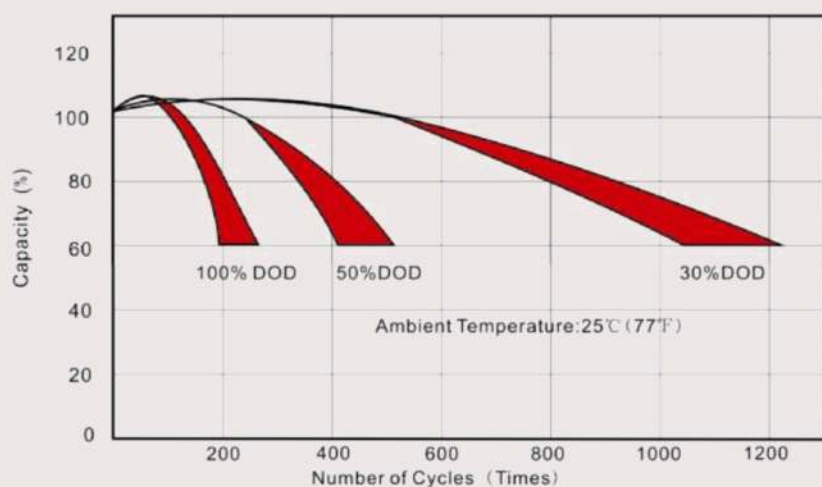
Battery Voltage and Charge Time for Cycle Use



Float(or Tickle) Service Life



Cycle Service Life





Whalebattery

12V 7.5Ah

12V 7.5Ah

specification

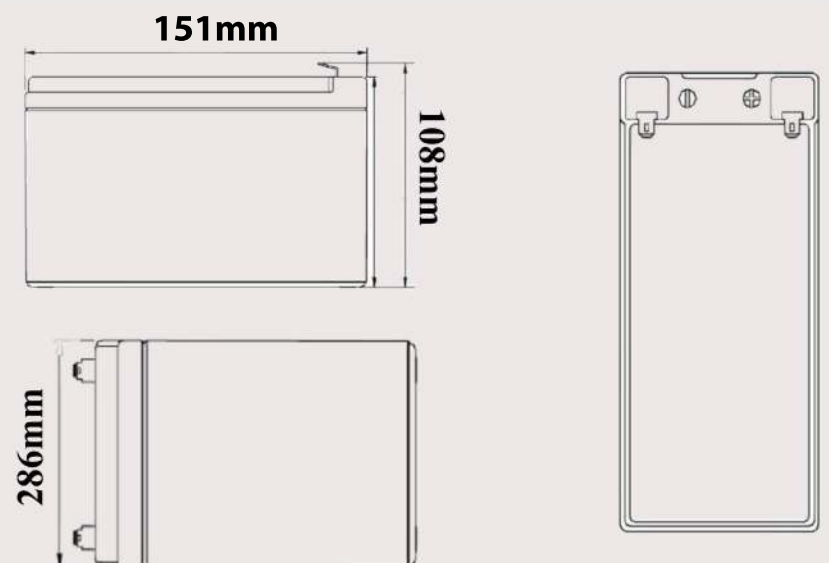
Norminal Voltage	12V
RatedCapacityg(10Hour Rate)	7.5Ah
Height	94mm
Length	151mm
Width	65mm
Weight	2.70kg



Characteristics

Capacity 25°C	10Hour-Rate	7.5Ah
	3Hour-Rate	5.3Ah
	1Hour-Rate	3.9Ah
Internal Resistance	full charge battery at 25°C	20mΩ
Self-Discharge at 25°C	Capacity After The 3 Month of storage	91%
	Capacity After The 6 Month of storage	82%
	Capacity After The 12 Month of storage	64%

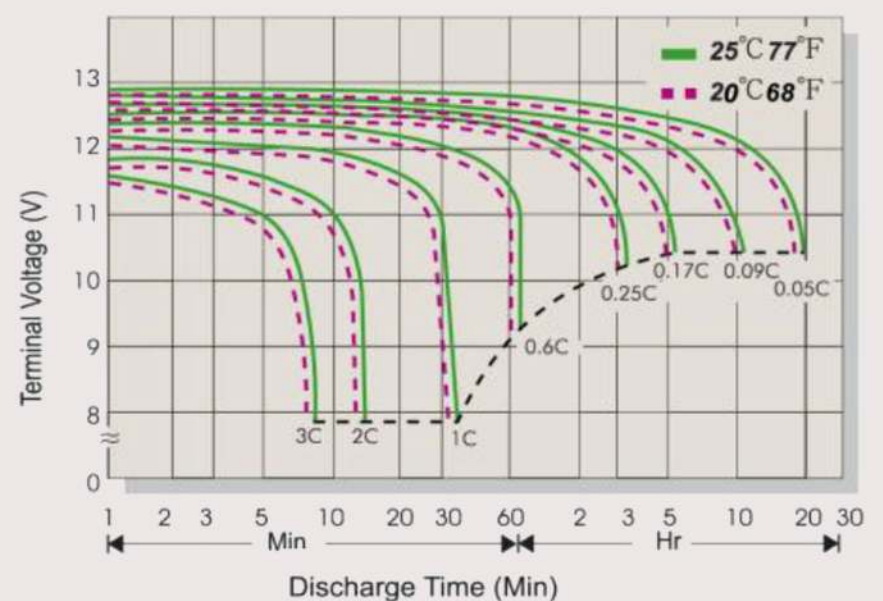
Outer Dimensions



Discharge and Final Voltage

Discharge time	0.25h	1h	3h	5h	8h	10h
Final Voltage	1.60VPC	1.60VPC	1.70VPC	1.73VPC	1.75VPC	1.80VPC

Discharge curves 25°C





Whalebattery

12V 65Ah

12V 65Ah

specification

Norminal Voltage	12V
RatedCapacityg(10Hour Rate)	65Ah
Height	180mm
Length	349mm
Width	167mm
Weight	23.85kg

Characteristics

Capacity 25°C	10Hour-Rate	65Ah
	3Hour-Rate	46.5Ah
	1Hour-Rate	34Ah
Internal Resistance	full charge battery at 25°C	5mΩ
Self-Discharge at 25°C	Capacity After The 3 Month of storage	91%
	Capacity After The 6 Month of storage	82%
	Capacity After The 12 Month of storage	64%

Discharge and Final Voltage

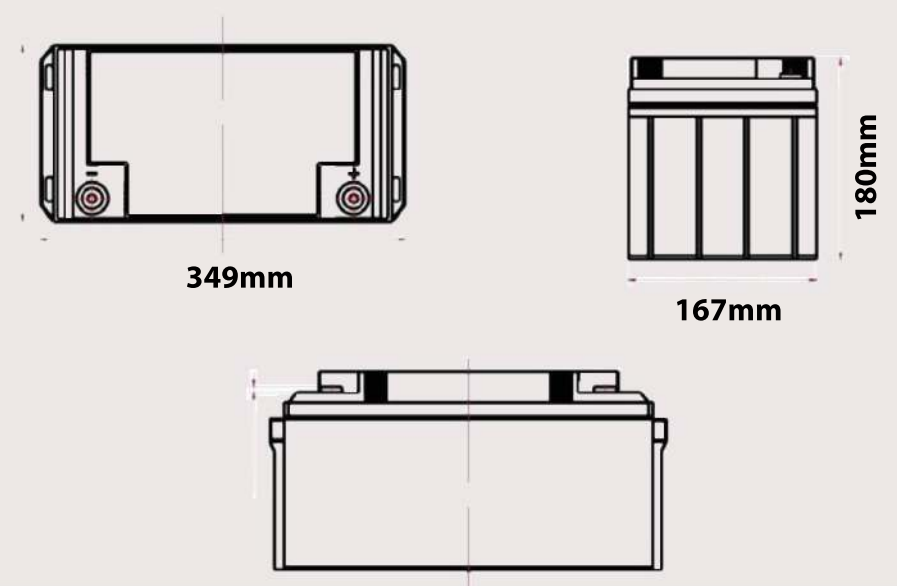
Discharge time	0.25h	1h	3h	5h	8h	10h
Final Voltage	1.60VPC	1.60VPC	1.70VPC	1.73VPC	1.75VPC	1.80VPC

Constant current (A) Discharge table at 25°C

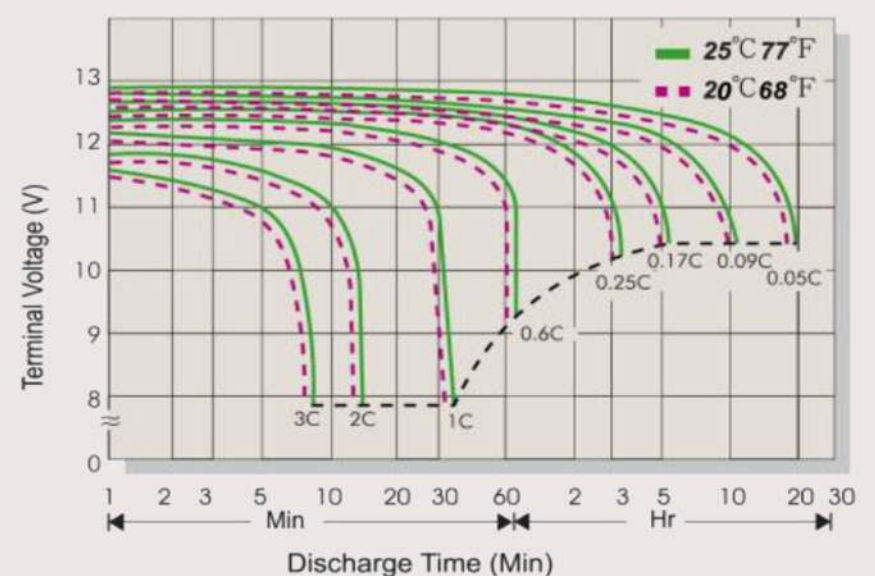
Amount of current (A)	1h	2h	3h	5h	8h	10h	20h
	34	20.7	15.5	10.1	7.2	6.5	3.51



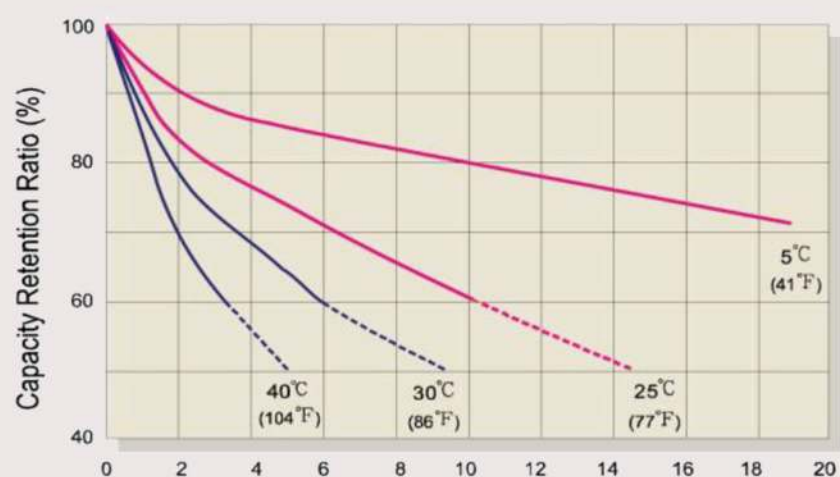
Outer Dimensions



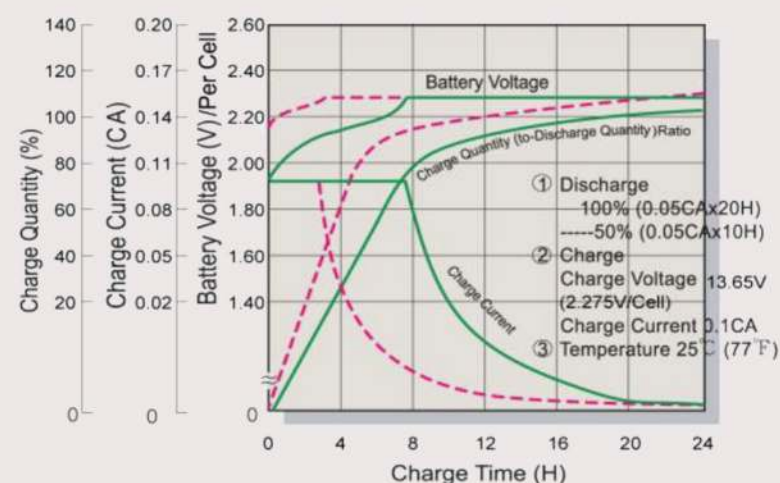
Discharge curves 25°C



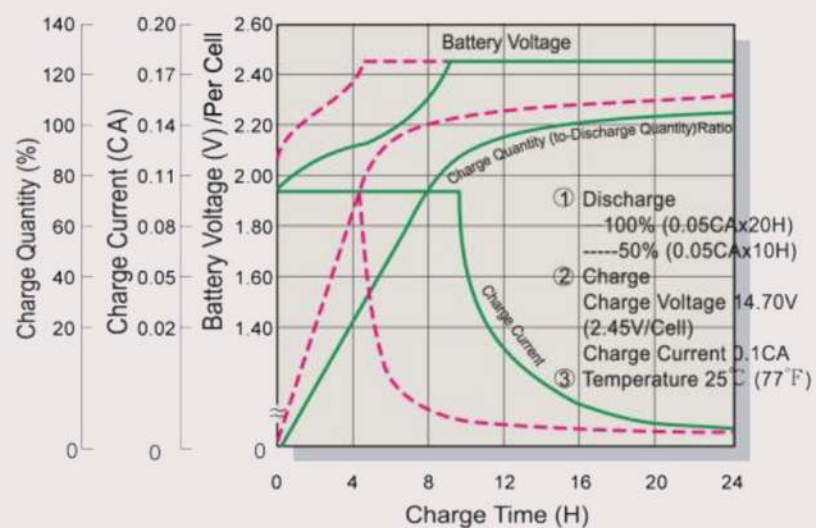
Capacity Retention Characteristic



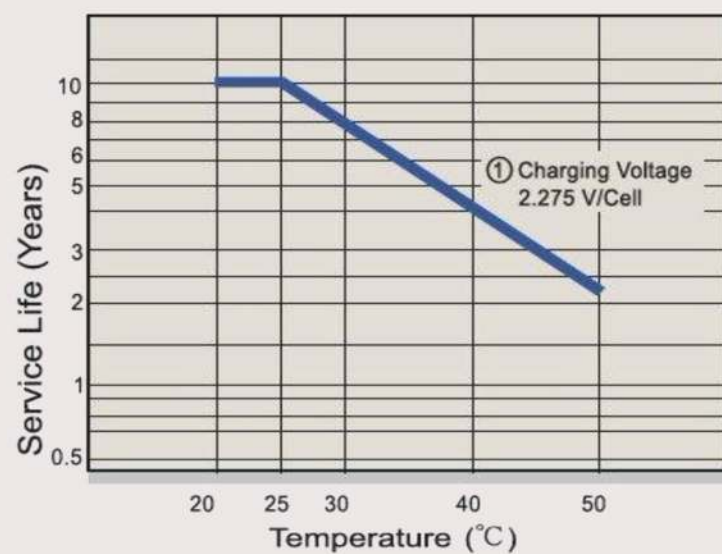
Battery Voltage and Charge Time for Standby



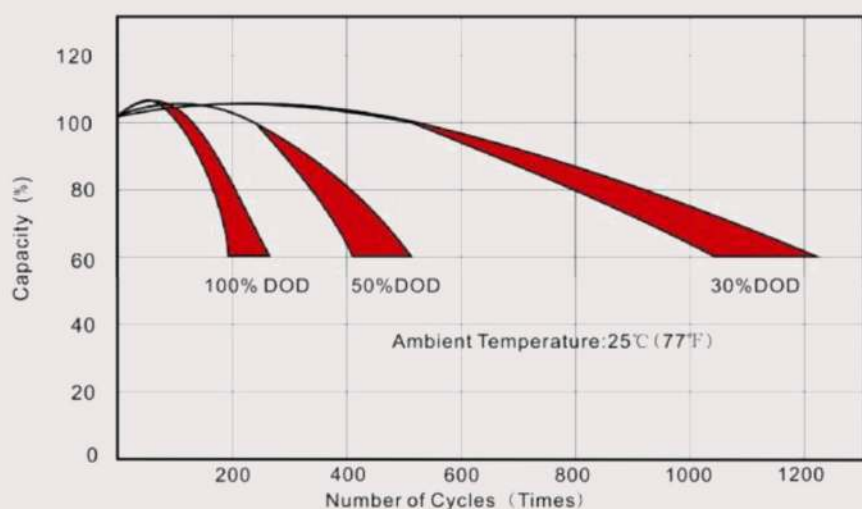
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life





Whalebattery

12V 9Ah

12V 9Ah

specification

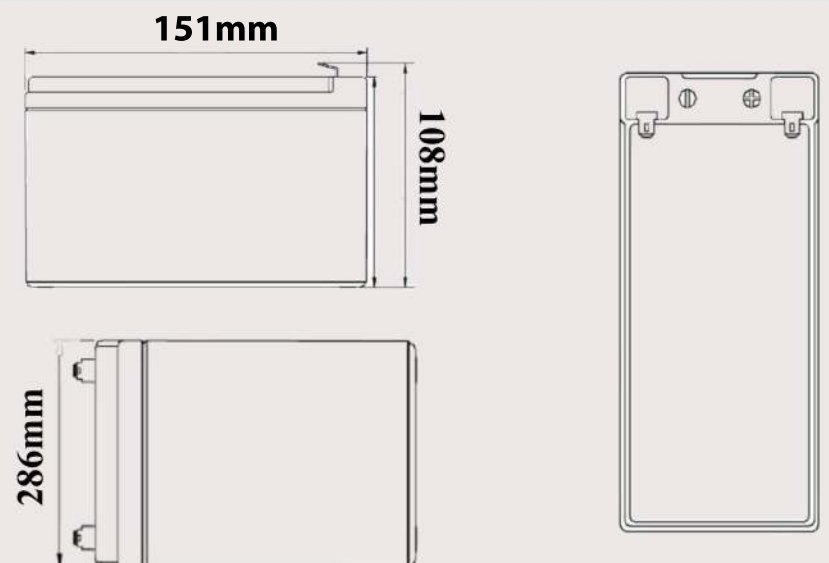
Norminal Voltage	12V
RatedCapacityg(10Hour Rate)	9Ah
Height	94mm
Length	151mm
Width	65mm
Weight	2.65kg



Characteristics

Capacity 25°C	10Hour-Rate	9Ah
	3Hour-Rate	5.3Ah
	1Hour-Rate	3.9Ah
Internal Resistance	full charge battery at 25°C	20mΩ
Self-Discharge at 25°C	Capacity After The 3 Month of storage	91%
	Capacity After The 6 Month of storage	82%
	Capacity After The 12 Month of storage	64%

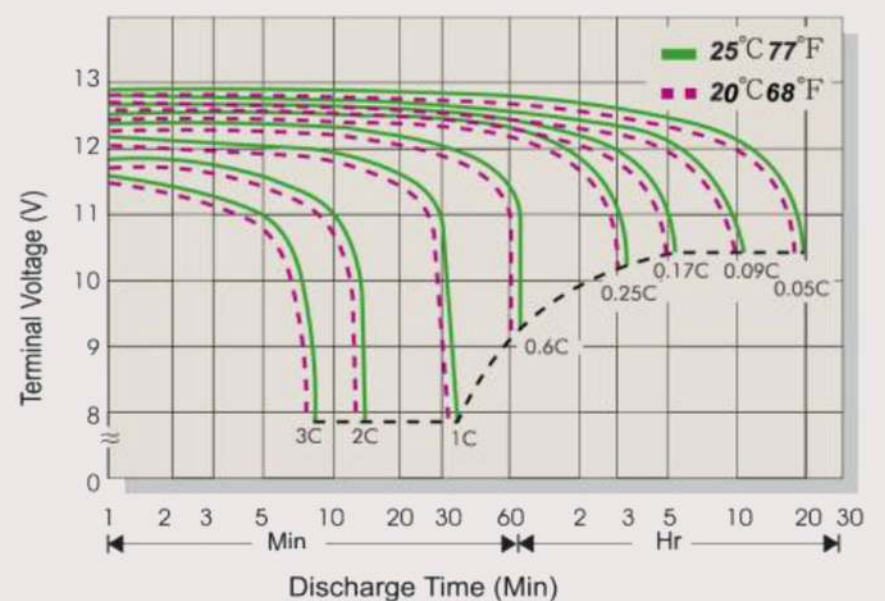
Outer Dimensions



Discharge and FinL Voltage

Discharge time	0.25h	1h	3h	5h	8h	10h
Final Voltage	1.60VPC	1.60VPC	1.70VPC	1.73VPC	1.75VPC	1.80VPC

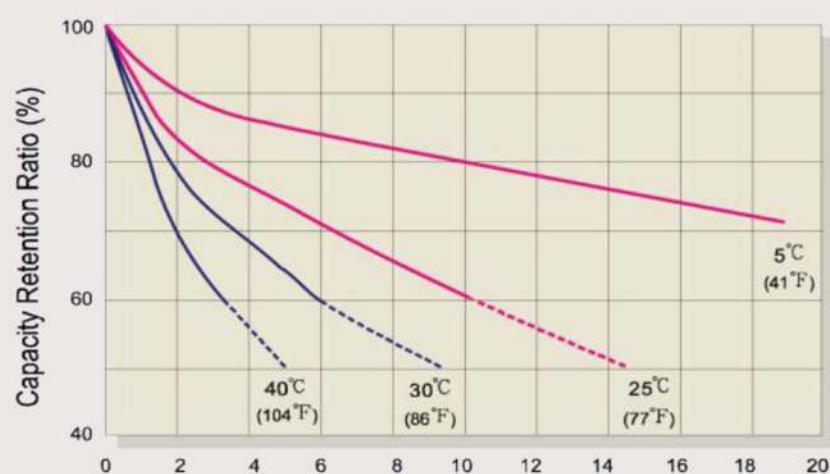
Discharge curves 25°C



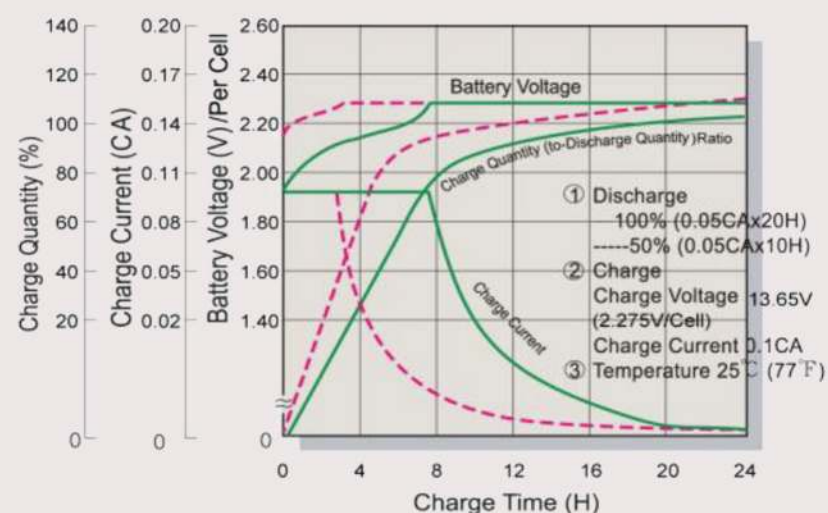
Whalebattery

12V 9Ah

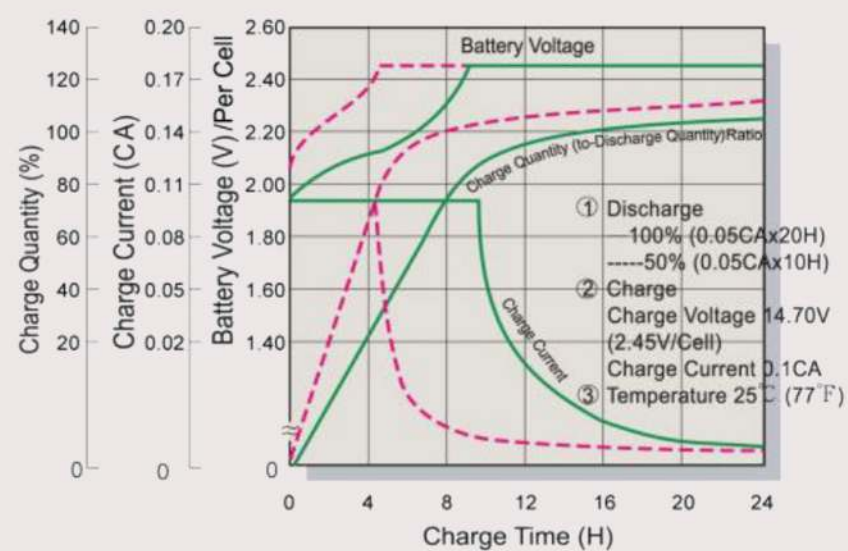
Capacity Retention Characteristic



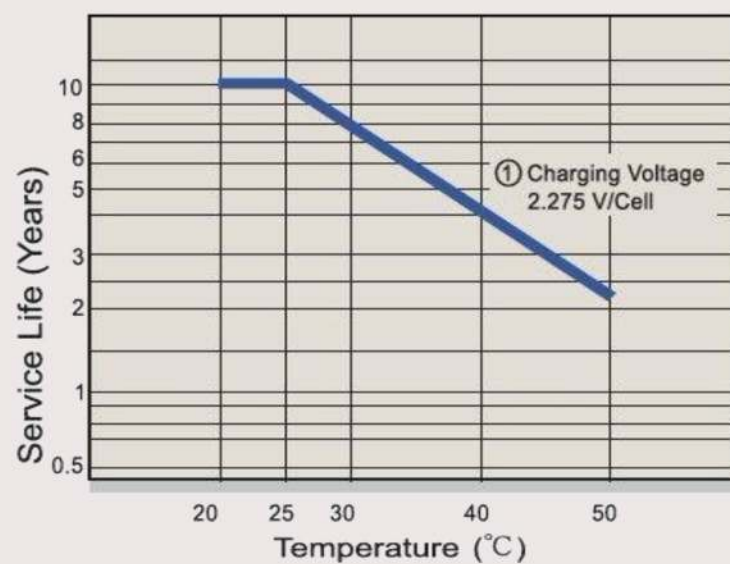
Battery Voltage and Charge Time for Standby



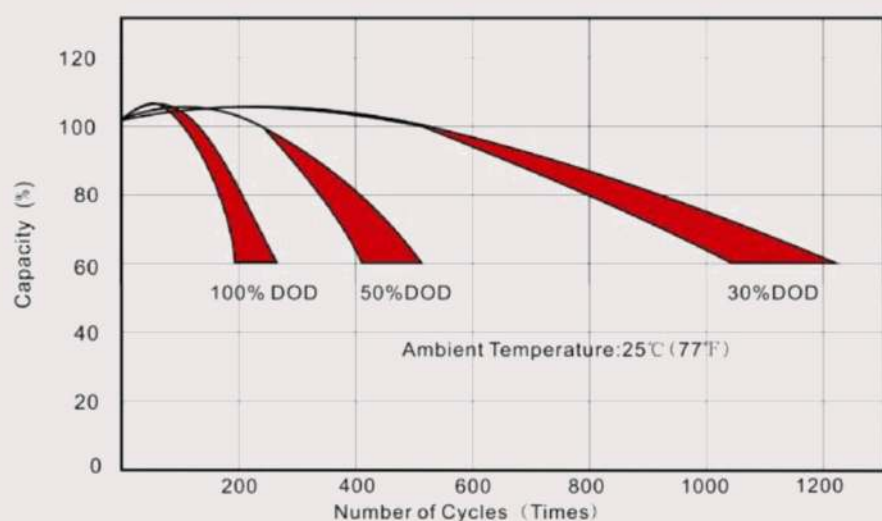
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



021-91302848



021-77863140 داخلی 104



آدرس : تهران-خیابان ابن سینا-بن بست نبوی-پلاک 1-واحد 4-





Whale battery

12V 42Ah

12V 42Ah

specification

Norminal Voltage	12V
Rated Capacityg(10 Hour Rate)	42Ah
Height	196mm
Length	168mm
Width	165mm
Weight	13.20kg

Characteristics

Capacity 25°C	10Hour-Rate	42Ah
	3Hour-Rate	30Ah
	1Hour-Rate	22Ah
Internal Resistance	full charge battery at 25°C	9mΩ
Self-Discharge at 25°C	Capacity After The 3 Month of storage	91%
	Capacity After The 6 Month of storage	82%
	Capacity After The 12 Month of storage	64%

Discharge and Final Voltage

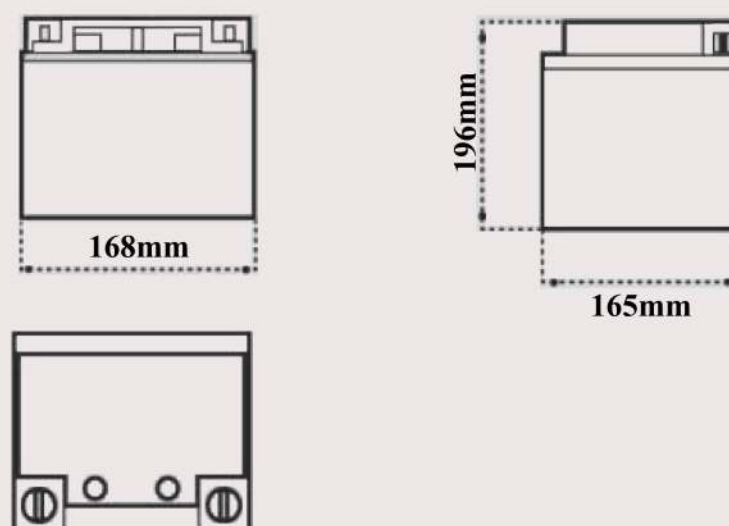
Discharge time	0.25h	1h	3h	5h	8h	10h
Final Voltage	1.60VPC	1.60VPC	1.70VPC	1.73VPC	1.75VPC	1.80VPC

Constant current (A) Discharge table at 25°C

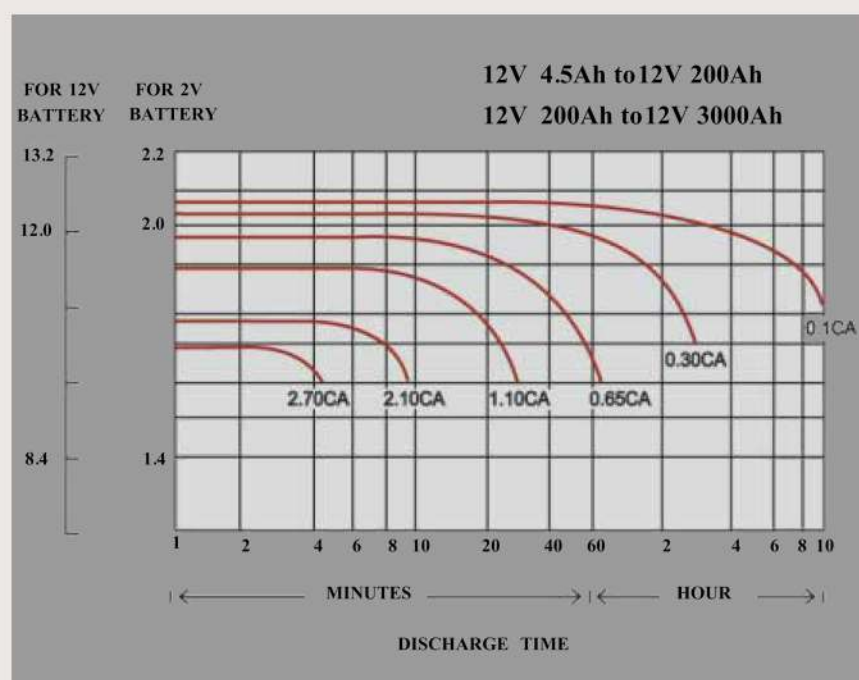
Amount of current (A)	1h	2h	3h	5h	8h	10h	20h
	22	13.4	10	6.6	4.6	4.2	2.27



Outer Dimensions



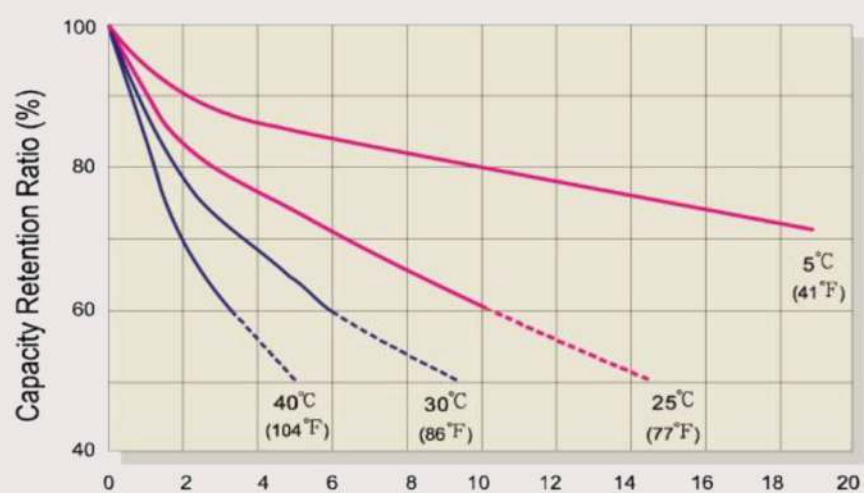
Discharge curves 25°C



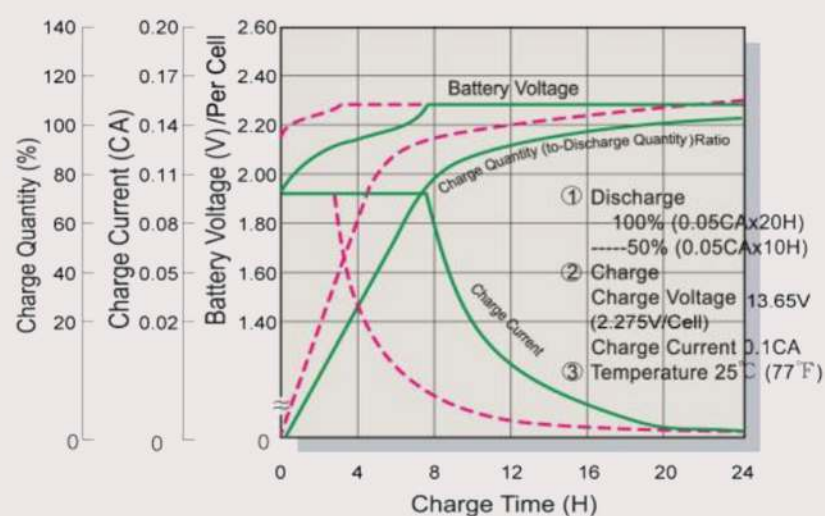
Whalebattery

12V 42Ah

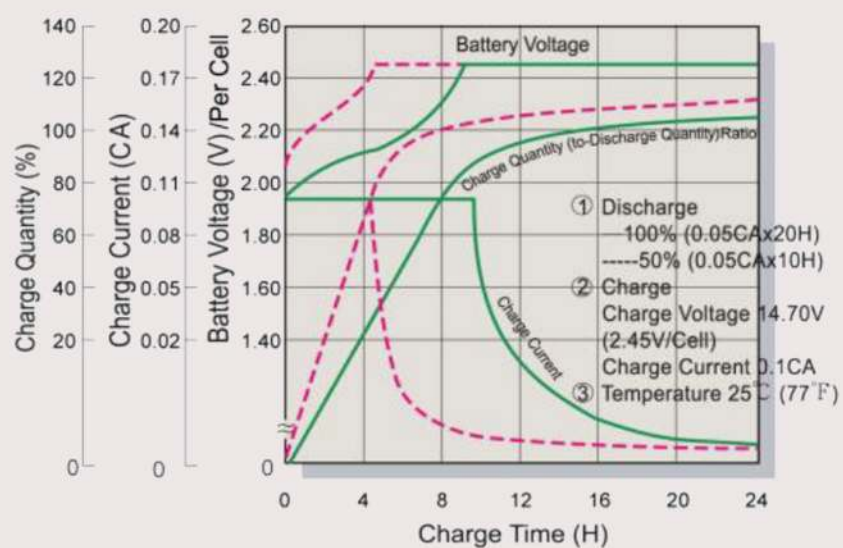
Capacity Retention Characteristic



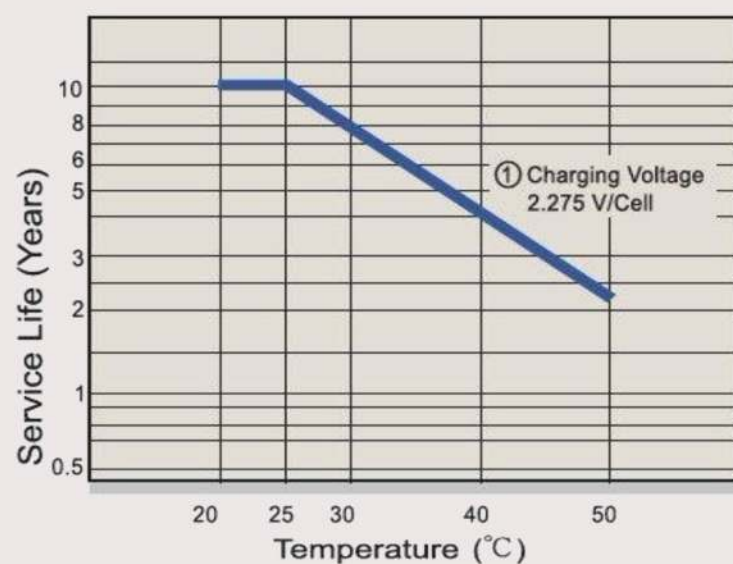
Battery Voltage and Charge Time for Standby



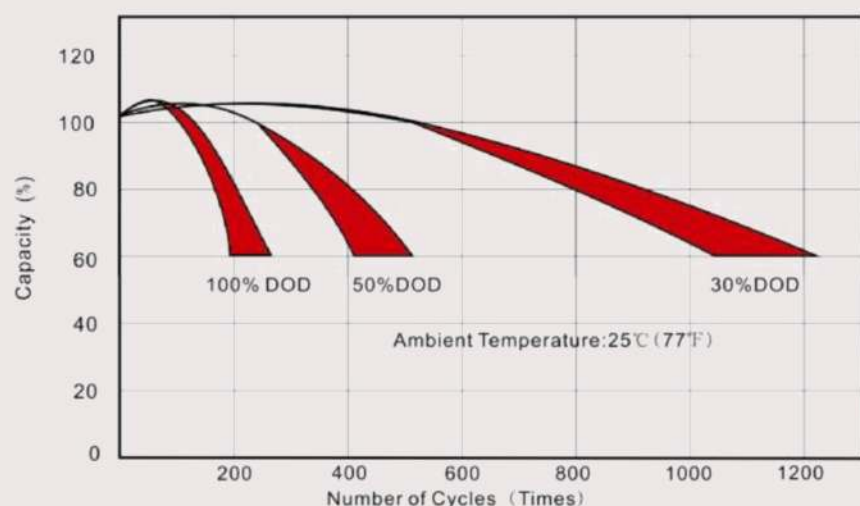
Battery Voltage and Charge Time for Cycle Use



Float(or Tickle) Service Life



Cycle Service Life



021-91302848



021-77863140 داخلی 104



آدرس : تهران-خیابان ابن سینا-بن بست نبوی-پلاک 1-واحد 4-





Whalebattery

12V100Ah

12V100Ah

specification

Norminal Voltage	12V
RatedCapacityg(10Hour Rate)	100Ah
Height	220mm
Length	330mm
Width	173mm
Weight	30.00kg

Characteristics

Capacity 25°C	10Hour-Rate	100Ah
	3Hour-Rate	75Ah
	1Hour-Rate	55Ah
Internal Resistance	full charge battery at 25°C	4.5mΩ
Self-Discharge at 25°C	Capacity After The 3 Month of storage	91%
	Capacity After The 6 Month of storage	82%
	Capacity After The 12 Month of storage	64%

Discharge and Final Voltage

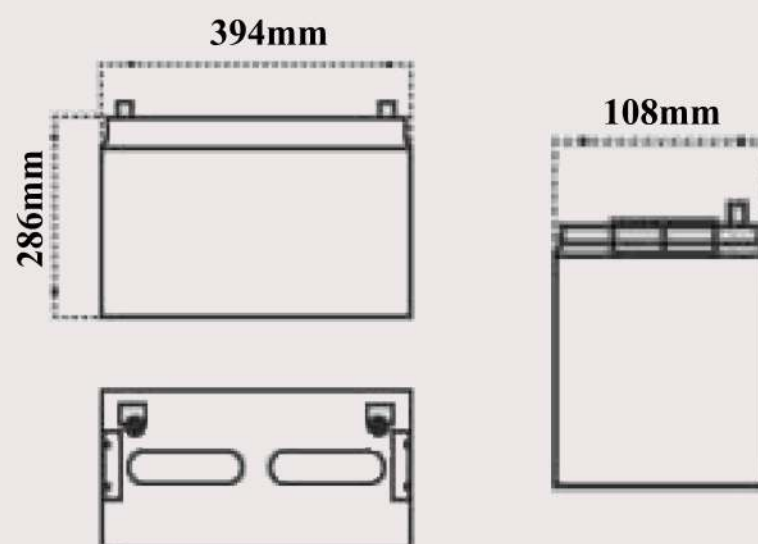
Discharge time	0.25h	1h	3h	5h	8h	10h
Final Voltage	1.60VPC	1.60VPC	1.70VPC	1.73VPC	1.75VPC	1.80VPC

Constant current (A) Discharge table at 25°C

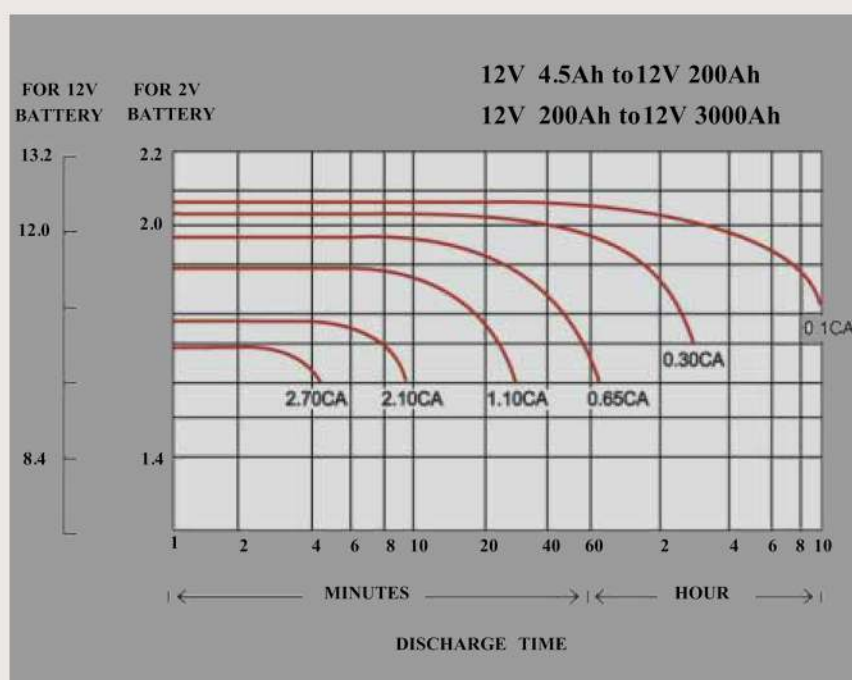
Amount of current (A)	1h	2h	3h	5h	8h	10h	20h
	55	31.8	25	16	11	10	5.4



Outer Dimensions



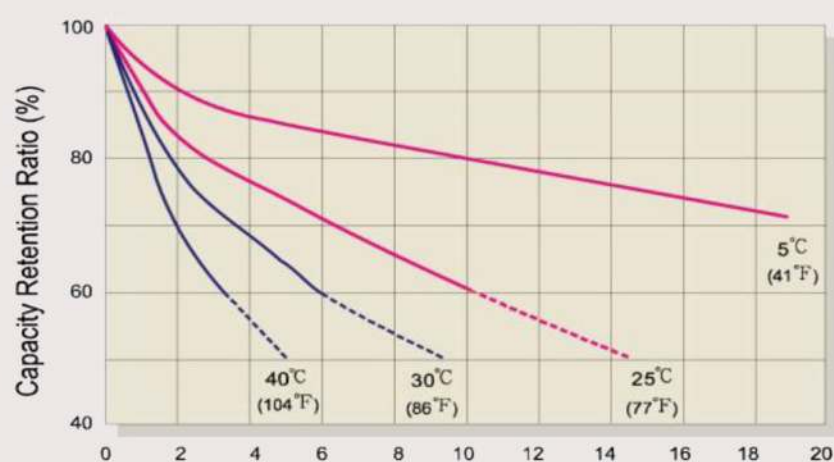
Discharge curves 25°C



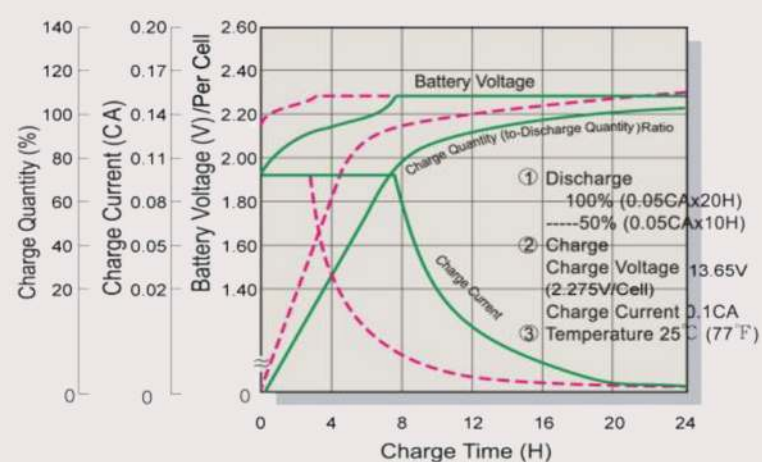
Whalebattery

12V100Ah

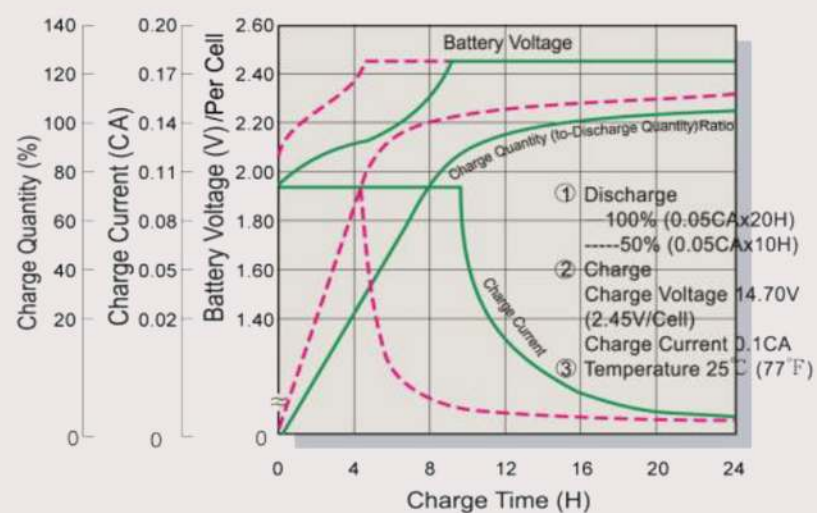
Capacity Retention Characteristic



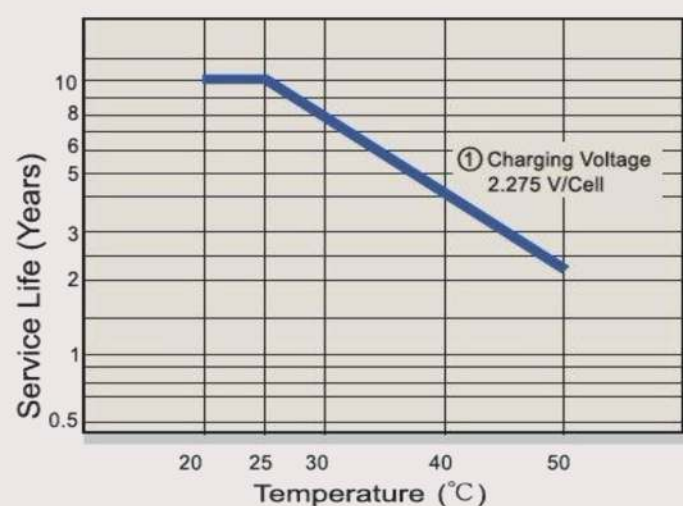
Battery Voltage and Charge Time for Standby



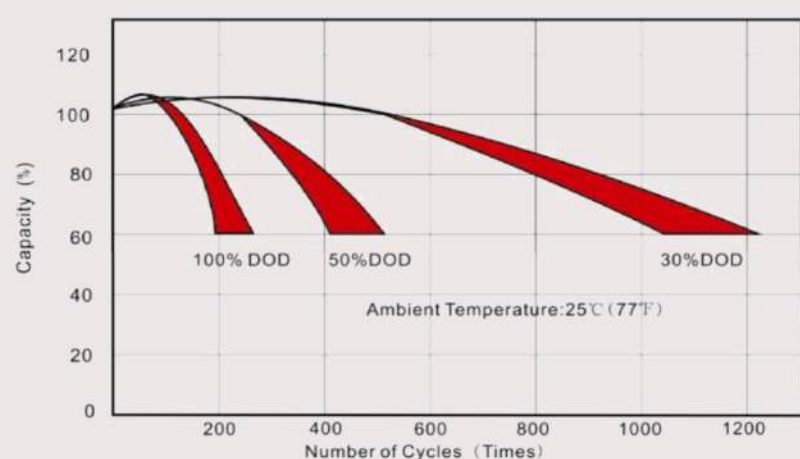
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



021-91302848



021-77863140 داخلی 104



آدرس : تهران-خیابان ابن سینا-بن بست نبوی-پلاک 1-واحد 4-





Whalebattery

12V 28Ah

12V 28Ah

specification

Norminal Voltage	12V
RatedCapacityg(10Hour Rate)	28Ah
Height	125mm
Length	175mm
Width	166mm
Weight	9.50kg

Characteristics

Capacity 25°C	10Hour-Rate	28Ah
	3Hour-Rate	19.8Ah
	1Hour-Rate	14.5Ah
Internal Resistance	full charge battery at 25°C	12mΩ
Self-Discharge at 25°C	Capacity After The 3 Month of storage	91%
	Capacity After The 6 Month of storage	82%
	Capacity After The 12 Month of storage	64%

Discharge and Final Voltage

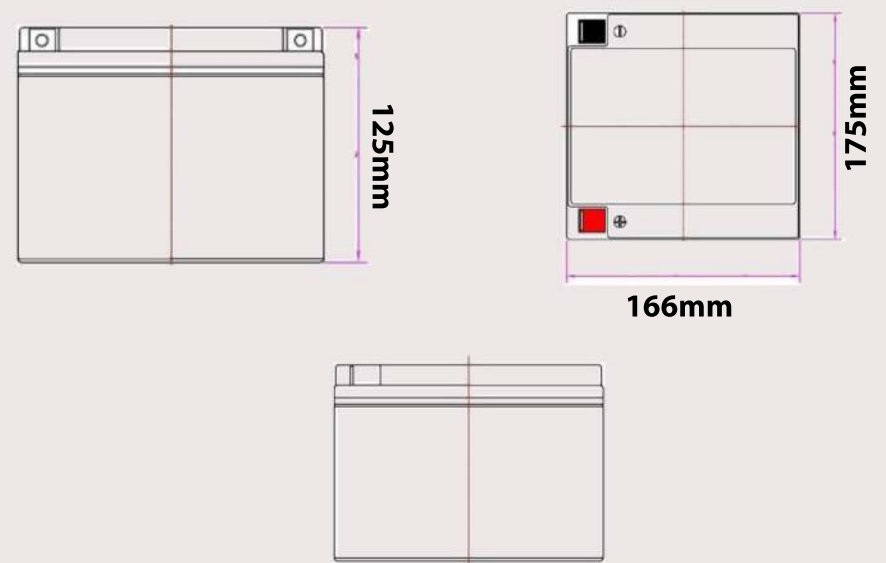
Discharge time	0.25h	1h	3h	5h	8h	10h
Final Voltage	1.60VPC	1.60VPC	1.70VPC	1.73VPC	1.75VPC	1.80VPC

Constant current (A) Discharge table at 25°C

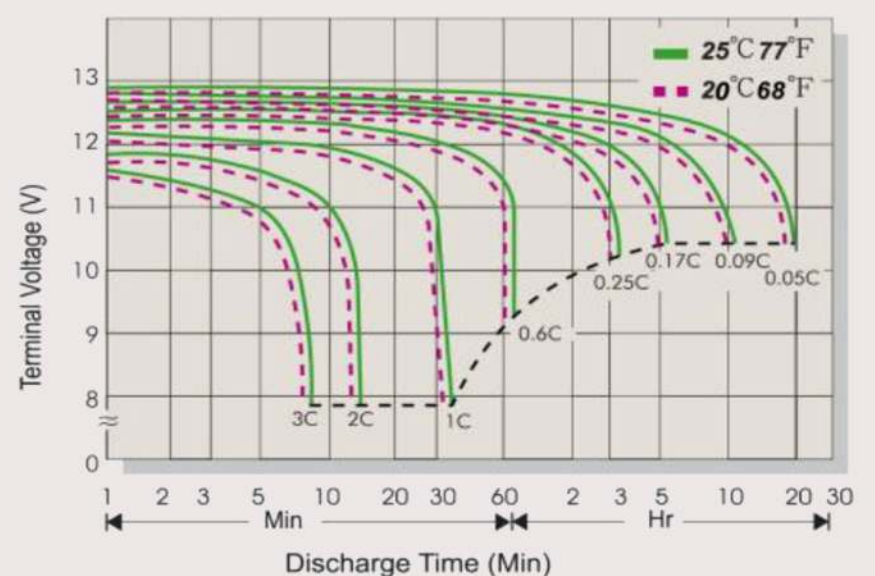
Amount of current (A)	1h	2h	3h	5h	8h	10h	20h
	14.5	10	6.6	4.2	3	2.8	1.42



Outer Dimensions



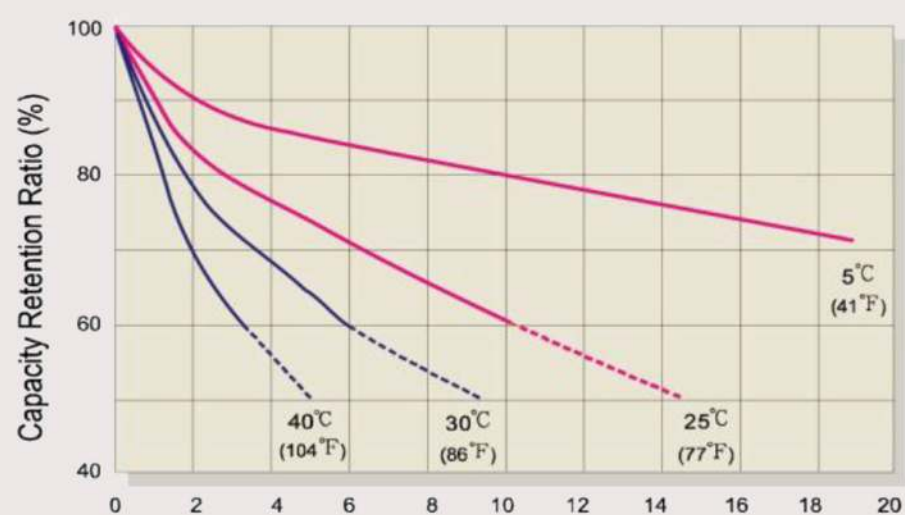
Discharge curves 25°C



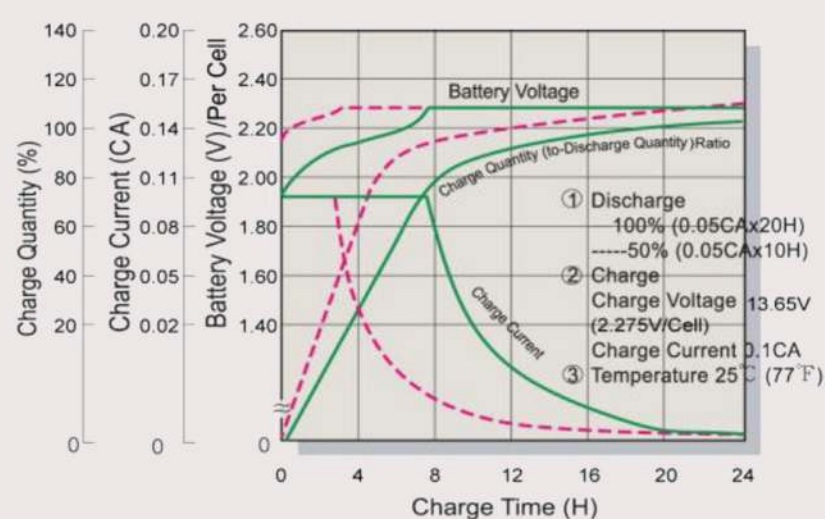
Whalebattery

12V 28Ah

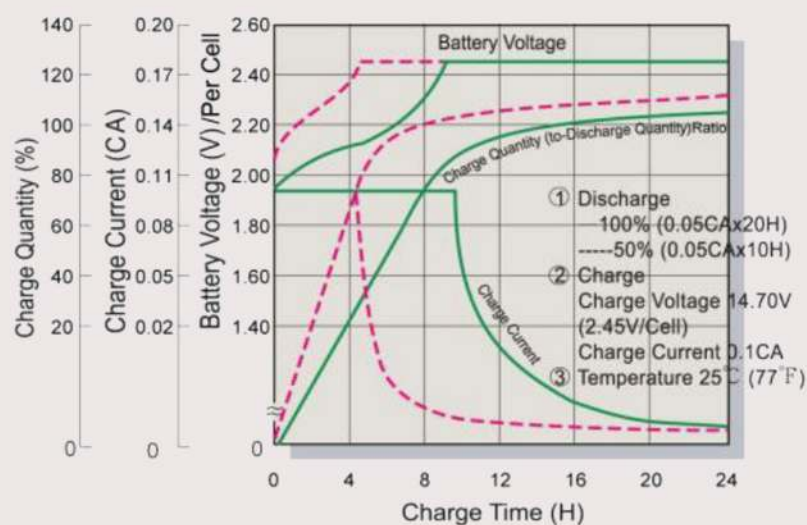
Capacity Retention Characteristic



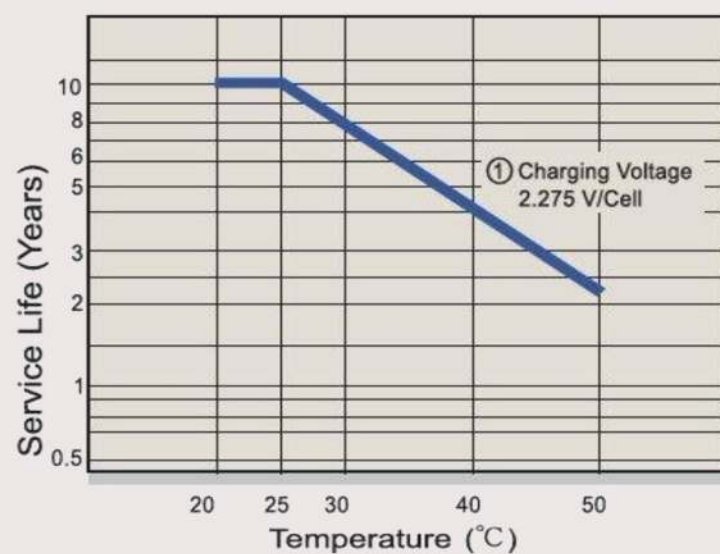
Battery Voltage and Charge Time for Standby



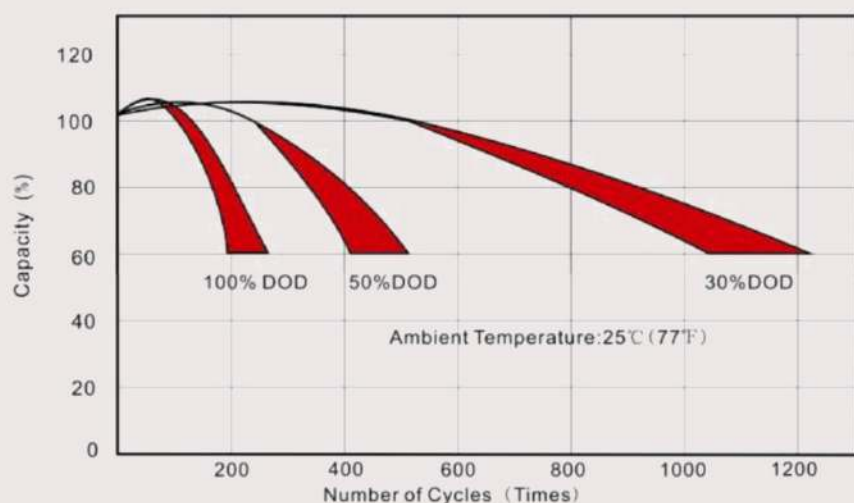
Battery Voltage and Charge Time for Cycle Use



Float(or Tickle) Service Life



Cycle Service Life



021-91302848



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آدرس : تهران-خیابان ابن سینا-بن بست نبوی-پلاک 1-واحد 4-

