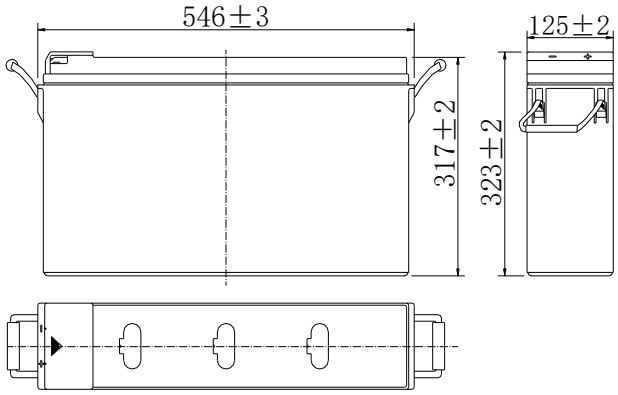
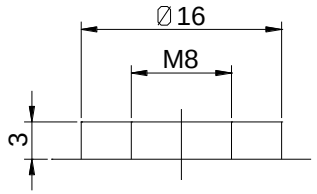
Specifications

Nominal Voltage		12 V
Capacity (20℃)	10HR(10.8V)	180 Ah
	5HR(10.5V)	157.5Ah
	1HR(9.60V)	112 Ah
Dimension	Length	546±3mm (21.50inch)
	Width	125±2mm (4.92inch)
	Height	317±2mm (12.48inch)
	Total Height	323±2mm (12.72inch)
Approx. Weight		57kg (125.4lbs)±4%
Terminal type		T11
Internal resistance (Fully charged, 20℃)		Approx. 4.0mΩ
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (20℃)	3 month	Remaining Capacity: 94%
	6 month	Remaining Capacity: 87%
	12 month	Remaining Capacity: 75%
Nominal operating temperature		20℃--25℃
Operating temperature range	Discharge	-15℃～50℃(5℉～122℉)
	Charge	-10℃～50℃(14℉～122℉)
	Storage	-20℃～50℃(-4℉～122℉)
Float charging voltage(20℃)		13.59 to 13.89V Temperature compensation: -18mV/℃
Cyclic charging voltage(20℃)		14.65 to 15.0V Temperature compensation: -30mV/℃
Maximum charging current		54A
Terminal material		Copper
Maximum discharge current		1300A(5 sec.)
Designed floating life(20℃)		15 years

Dimensions



Terminal



Terminal T11

- **Absorbent glass mat technology;**
- **Recognized by UL & CE;**
- **ABS container.**
- **15 Years long life designed floating life .**

Constant Current Discharge Characteristics (A, 20℃)

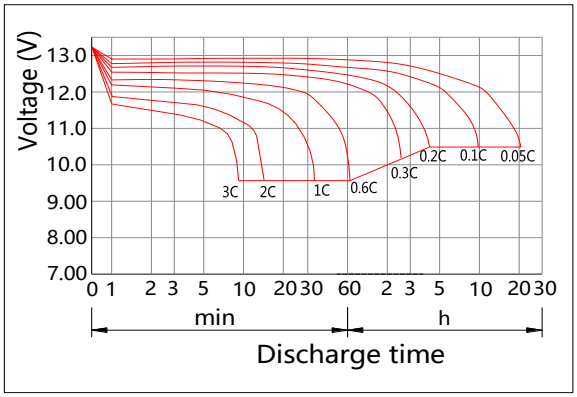
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	550	367	290	175	112	65.8	45.9	37.6	32.1	28.1	22.0	18.3	9.62
9.90V	528	352	279	173	110	65.4	45.6	37.4	31.9	27.9	21.9	18.3	9.60
10.2V	505	336	270	168	107	64.8	45.3	37.2	31.7	27.7	21.8	18.2	9.57
10.5V	485	330	263	164	105	63.8	45.0	36.9	31.5	27.5	21.6	18.1	9.52
10.8V	465	318	248	158	102	62.2	43.7	35.8	30.6	26.7	21.0	18.0	9.45

Constant Power Discharge Characteristics (Watt, 20℃)

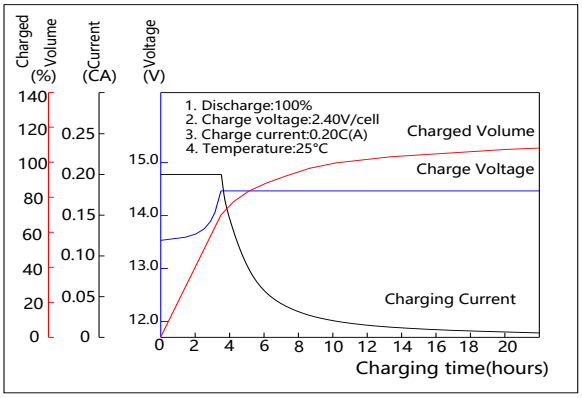
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	5775	3960	3261	1979	1272	762	540	443	380	332	262	219	115
9.90V	5537	3797	3183	1940	1253	757	537	440	378	330	260	218	115
10.2V	5299	3633	3065	1880	1221	750	533	437	375	328	258	218	115
10.5V	5090	3490	2965	1835	1197	739	529	434	372	326	257	216	114
10.8V	4886	3350	2805	1767	1160	720	513	421	361	316	249	215	113

Note: The above characteristics data can be obtained within three charge/discharge cycles.

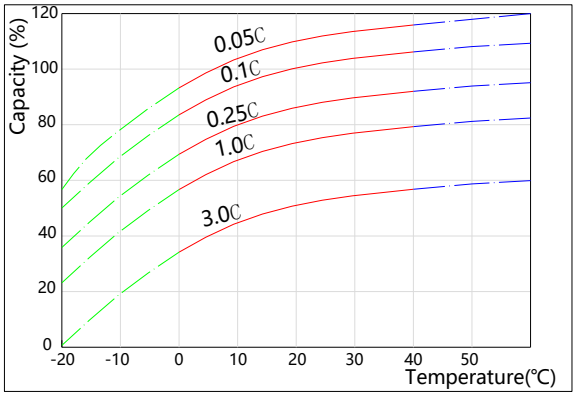
Discharge Characteristics(20℃)



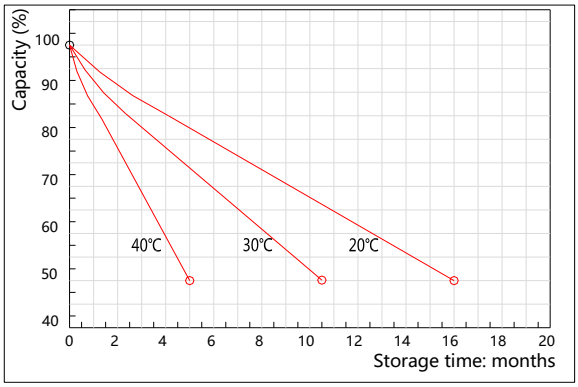
Charging Characteristics(20℃)



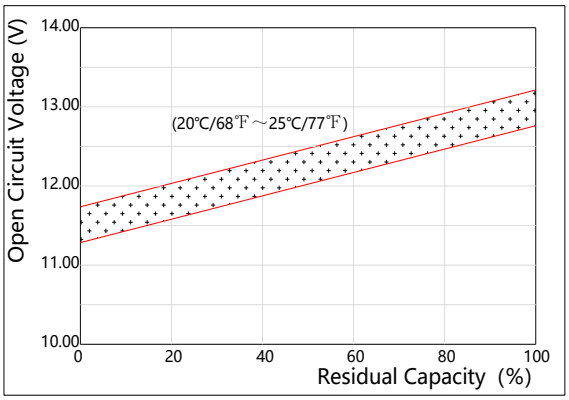
Effect of Temperature on Capacity



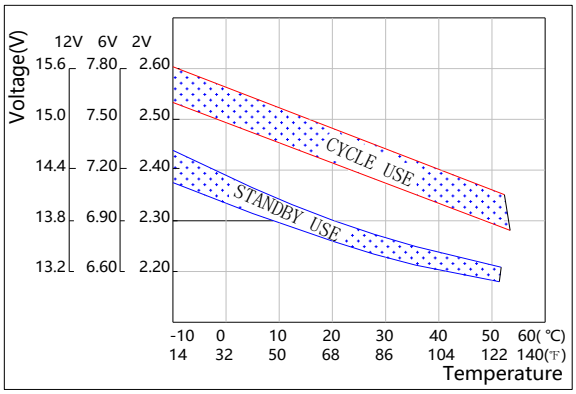
Self-discharge Characteristics



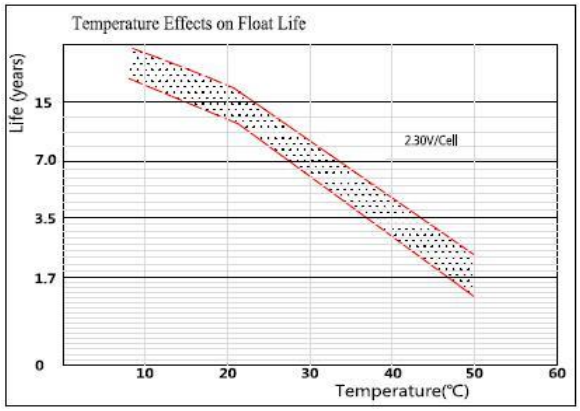
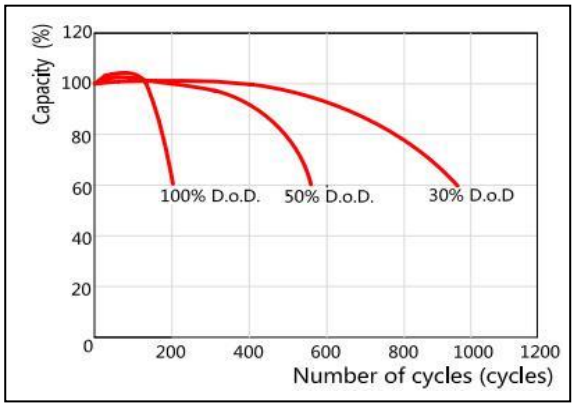
The Relationship for Open Circuit Voltage and Residual Capacity (20℃)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(20℃)