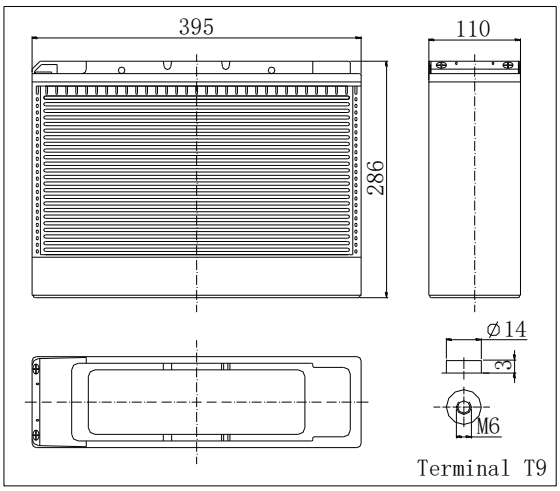
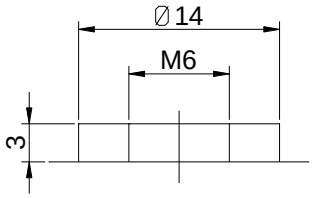
Specifications

Nominal Voltage		12 V
Capacity (20℃)	10HR(10.8V)	90 Ah
	5HR(10.5V)	79 Ah
	1HR(9.60V)	56 Ah
Dimension	Length	395±2mm (15.55inch)
	Width	110±2mm (4.33inch)
	Height	286±2mm (11.26inch)
	Total Height	286±2mm (11.26inch)
Approx. Weight		28.5kg (62.7lbs)±4%
Terminal type		T9
Internal resistance (Fully charged, 20℃)		Approx. 5.5 mΩ
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 14.50V Temperature compensation: -30mV/℃
Maximum charging current		27A
Terminal material		Copper
Maximum discharge current		800A(5 sec.)
Designed floating life(20℃)		15 years

Dimensions



Terminal



Terminal T9

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

Constant Current Discharge Characteristics (A, 20℃)

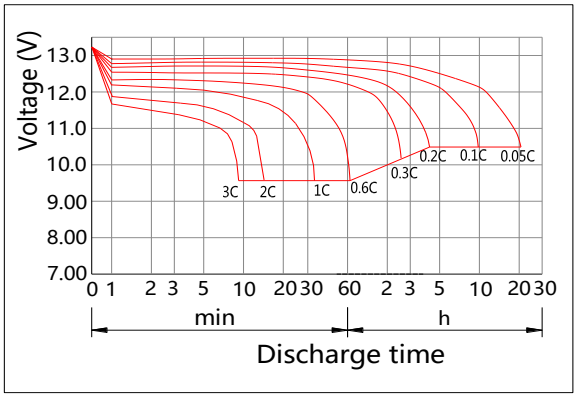
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	275	184	145	87.5	56.0	32.9	23.0	18.8	16.1	14.1	11.0	9.15	4.81
9.90V	264	176	140	86.5	55.0	32.7	22.8	18.7	16.0	14.0	11.0	9.15	4.80
10.2V	253	168	135	84.0	53.5	32.4	22.7	18.6	15.9	13.9	10.9	9.10	4.79
10.5V	243	165	132	82.0	52.5	31.9	22.5	18.5	15.8	13.8	10.8	9.05	4.76
10.8V	233	159	124	79.0	51.0	31.1	21.9	17.9	15.3	13.4	10.5	9.00	4.73

Constant Power Discharge Characteristics (Watt, 20℃)

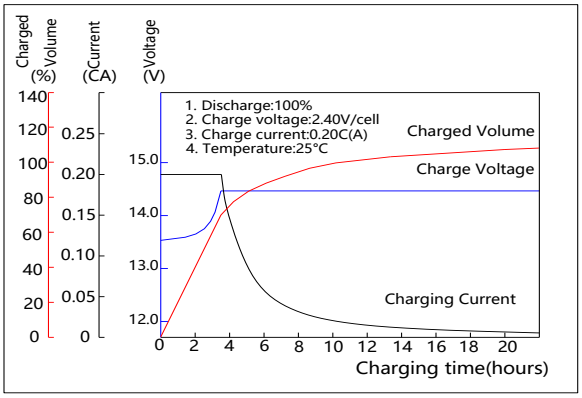
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	1414	970	775	470	306	183	130	108	92.5	80.5	63.5	53.0	28.0
9.90V	1372	941	756	461	301	182	129	107	92.0	80.0	63.0	53.0	28.0
10.2V	1315	902	728	447	293	180	128	106	91.0	79.5	62.5	53.0	28.0
10.5V	1259	863	704	436	288	178	127	106	90.5	79.0	62.5	52.5	27.8
10.8V	1188	815	667	420	279	173	123	102	87.5	77.0	60.5	52.5	27.5

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

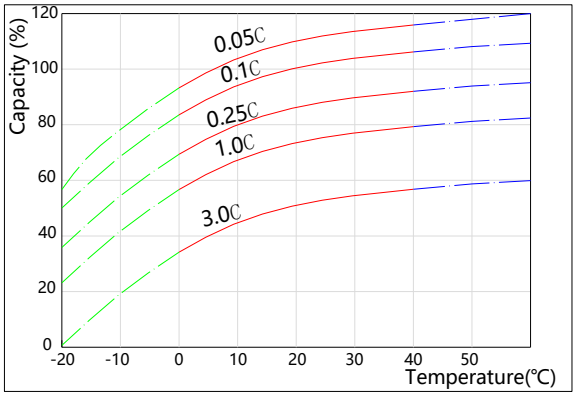
Discharge Characteristics(20℃)



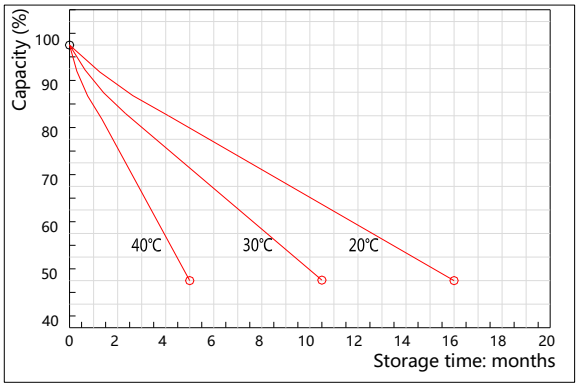
Charging Characteristics(20℃)



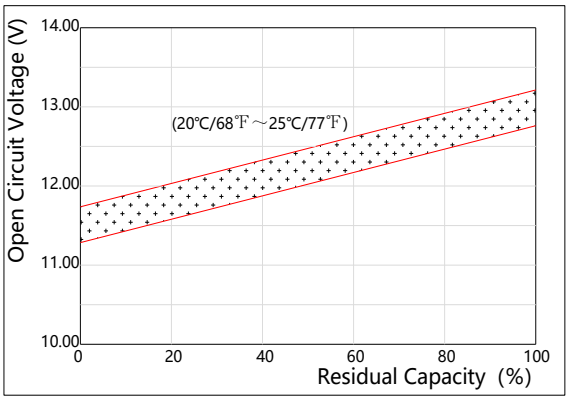
Effect of Temperature on Capacity



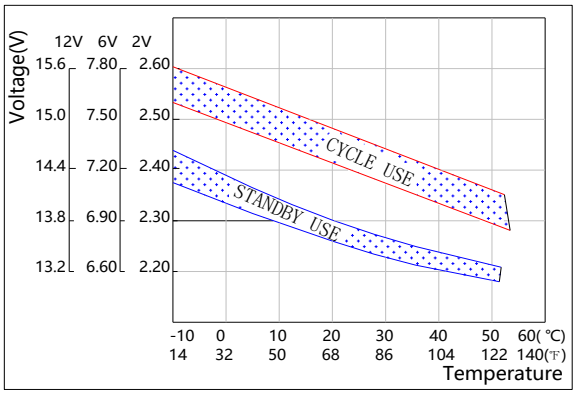
Self-discharge Characteristics



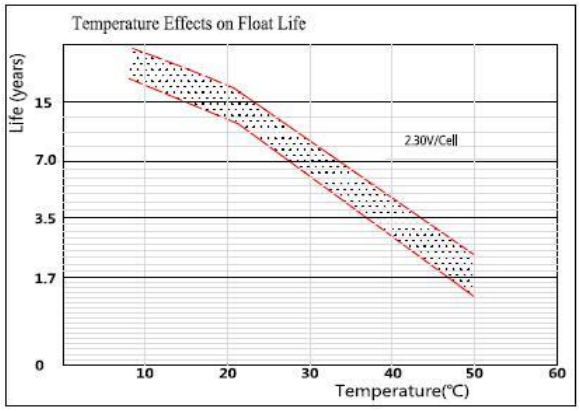
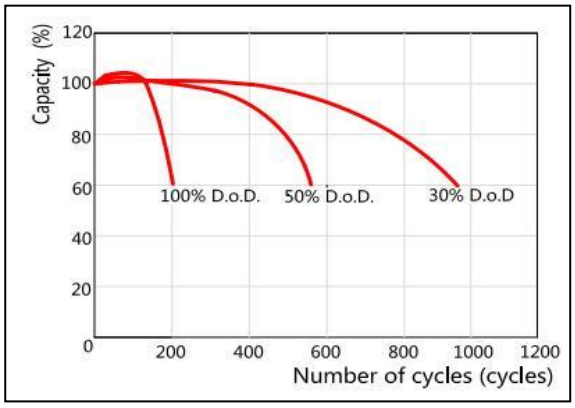
The Relationship for Open Circuit Voltage and Residual Capacity (20℃)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(20℃)