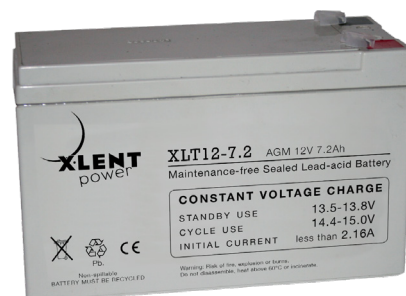


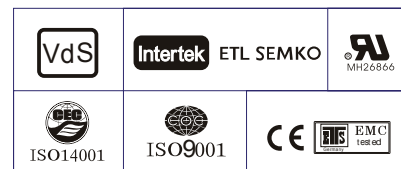
### Specifications

Nominal Voltage	12V	
Nominal Capacity(20HR)	7.00Ah	
Dimension	Length	151±1mm (5.94 inches)
	Width	65±1mm (2.56 inches)
	Container Height	94.5±1mm (3.72 inches)
	Total Height (with Terminal)	100±1mm (3.94 inches)
Approx Weight	Approx 2.18 kg (4.81lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	7.00 AH/0.340A	(20hr ,1.80V/cell,20°C/68°F)
	6.31 AH/0.631A	(10hr,1.80V/cell,20°C/68°F)
	5.70 AH/1.14A	(5hr,1.75V/cell,20°C/68°F)
	5.13 AH/1.71A	(3hr,1.75V/cell,20°C/68°F)
	4.18 AH/4.18A	(1hr,1.60V/cell,20°C/68°F)
Max. Discharge Current	105A (5s)	
Internal Resistance	Approx 23mΩ	
Operating Temp.Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	
Nominal Operating Temp. Range	20±3°C (68±5°F)	
Cycle Use	Initial Charging Current less than 2.1A.Voltage	
	14.25V~14.85V at 20°C(68°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.4V~13.7V at 20°C(68°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C ( 77°F)	100%
	0°C ( 32°F)	86%
Self Discharge	XLENT power XLT series batteries may be stored for up to 6 months at 20°C (68°F) and then a freshening charge is required.	
	For higher temperatures the time interval will be shorter.	



### Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



### Constant Current Discharge (Amperes) at 20 °C (68°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	12.7	9.72	8.06	6.97	5.39	3.97	3.34	2.00	1.56	1.27	1.04	0.91	0.733	0.612	0.336
1.80V/cell	17.0	12.4	9.73	8.23	6.35	4.61	3.75	2.18	1.68	1.36	1.11	0.98	0.778	0.631	0.340
1.75V/cell	19.2	13.7	10.6	8.86	6.60	4.79	3.92	2.26	1.71	1.39	1.14	1.00	0.791	0.648	0.343
1.70V/cell	21.1	14.9	11.4	9.31	6.87	4.98	4.04	2.32	1.76	1.42	1.17	1.02	0.802	0.661	0.349
1.65V/cell	23.3	16.1	12.1	9.89	7.24	5.10	4.14	2.35	1.84	1.47	1.20	1.04	0.815	0.675	0.354
1.60V/cell	25.7	17.4	12.9	10.5	7.65	5.32	4.18	2.45	1.89	1.52	1.24	1.07	0.823	0.682	0.356

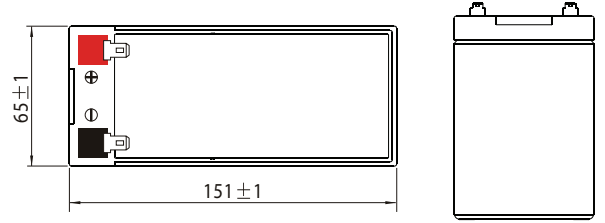
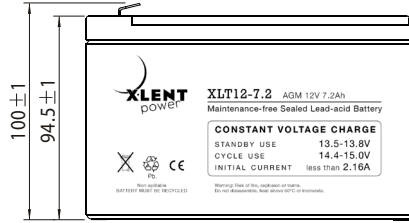
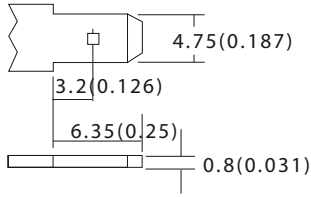
### Constant Power Discharge (Watts) at 20 °C (68°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	23.2	18.0	15.0	13.1	10.3	7.63	6.45	3.88	3.05	2.49	2.03	1.79	1.45	1.21	0.666
1.80V/cell	30.7	22.7	17.9	15.3	11.9	8.80	7.19	4.21	3.26	2.64	2.17	1.91	1.53	1.25	0.672
1.75V/cell	33.9	24.5	19.3	16.3	12.3	9.05	7.48	4.35	3.31	2.69	2.22	1.95	1.55	1.28	0.677
1.70V/cell	36.3	26.1	20.4	17.0	12.7	9.37	7.70	4.45	3.39	2.76	2.27	1.99	1.57	1.30	0.689
1.65V/cell	39.5	27.9	21.5	17.9	13.3	9.52	7.82	4.48	3.52	2.84	2.33	2.03	1.59	1.33	0.698
1.60V/cell	42.6	29.6	22.6	18.9	13.9	9.87	7.85	4.65	3.61	2.92	2.40	2.07	1.61	1.34	0.701

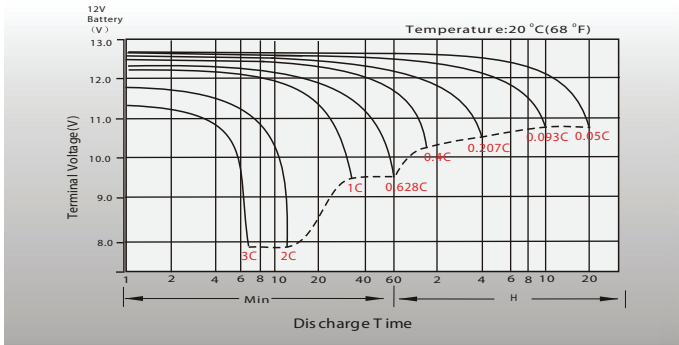
## Dimensions

### T1 Terminal

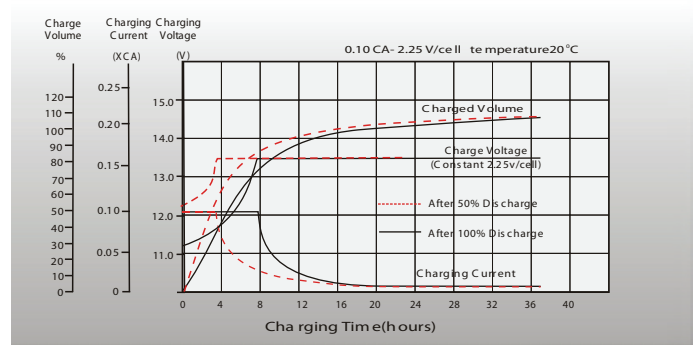
Unit: mm [inches]



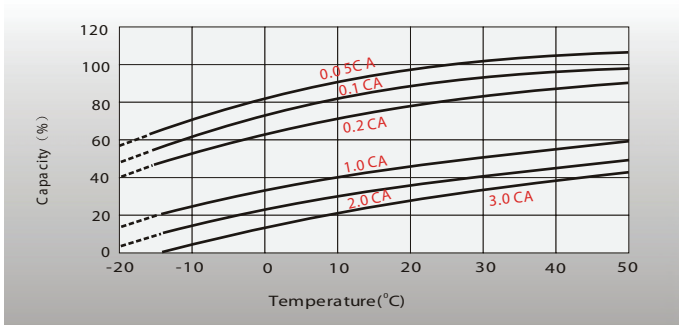
## Discharge Characteristics



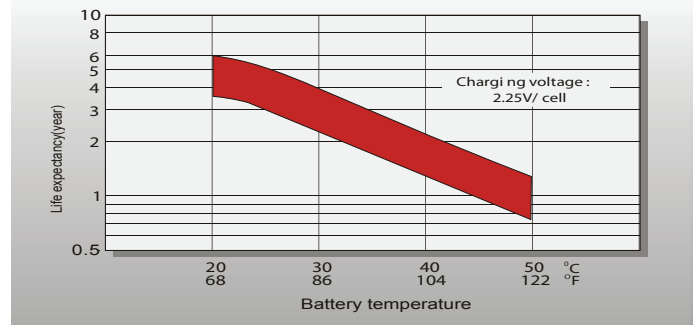
## Float Charging Characteristics



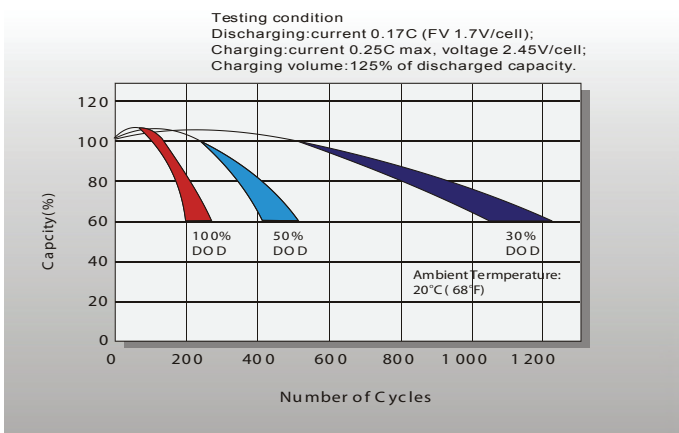
## Temperature Effects in Relation to Battery Capacity



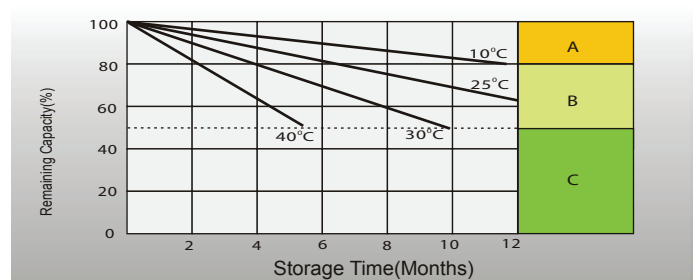
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:  
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.