

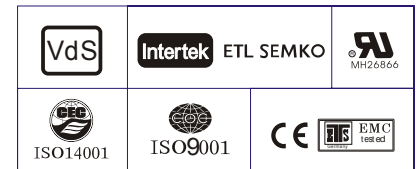
### Specifications

Nominal Voltage	12V
Nominal Capacity(20HR)	24.0AH
Dimension	Length 166.5±1mm (6.56 inches)
	Width 175±1mm (6.89 inches)
	Container Height 125±1mm (4.92 inches)
	Total Height (with Terminal) 125±1mm (4.92 inches)
Approx Weight	Approx 7.2 kg (15.88lbs)
Terminal	T3 / T12
Container Material	ABS
Rated Capacity	24.0 AH/1.16A (20hr , 1.80V/cell,20°C/68°F)
	21.7 AH/2.17A (10hr, 1.80V/cell,20°C/68°F)
	19.6 AH/3.92A (5hr, 1.75V/cell,20°C/68°F)
	17.6 AH/5.88A (3hr, 1.75V/cell,20°C/68°F)
	14.3 AH/14.3A (1hr, 1.60V/cell,20°C/68°F)
Max. Discharge Current	360A (5s)
Internal Resistance	Approx 14mΩ
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 7.2A. Voltage 14.25V~14.85V at 20°C(68°F)Temp. Coefficient -30mV/°C
	Standby Use
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	XLNT 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)

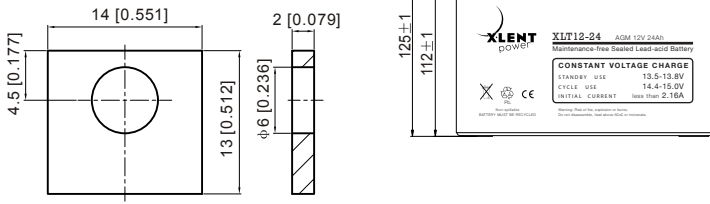
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	43.4	33.3	27.6	23.9	18.5	13.6	11.5	6.85	5.36	4.36	3.56	3.12	2.51	2.10	1.15
1.80V/cell	58.3	42.6	33.4	28.2	21.8	15.8	12.8	7.48	5.77	4.65	3.82	3.34	2.67	2.17	1.16
1.75V/cell	65.7	46.8	36.5	30.4	22.6	16.4	13.4	7.76	5.88	4.76	3.92	3.43	2.71	2.22	1.18
1.70V/cell	72.4	51.0	38.9	31.9	23.5	17.1	13.9	7.95	6.04	4.88	4.02	3.51	2.75	2.27	1.20
1.65V/cell	79.8	55.1	41.4	33.9	24.8	17.5	14.2	8.06	6.30	5.05	4.13	3.58	2.79	2.31	1.21
1.60V/cell	88.0	59.8	44.3	36.1	26.2	18.2	14.3	8.41	6.49	5.21	4.26	3.66	2.82	2.34	1.22

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

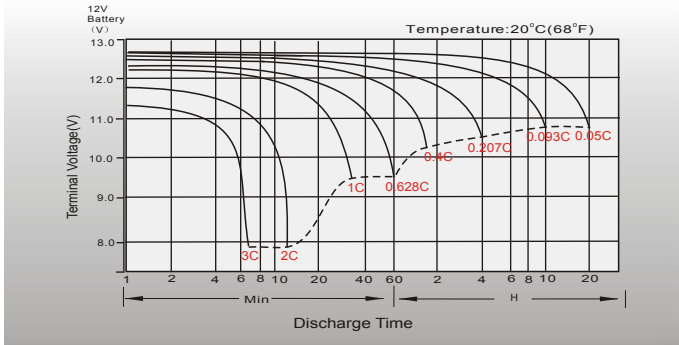
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	79.4	61.6	51.5	45	35.2	26.1	22.1	13.3	10.5	8.52	6.97	6.13	4.96	4.16	2.28
1.80V/cell	105.4	77.8	61.4	52.4	40.9	30.2	24.6	14.4	11.2	9.05	7.45	6.55	5.25	4.28	2.30
1.75V/cell	116.3	84.1	66.3	55.9	42.1	31.0	25.7	14.9	11.3	9.22	7.62	6.70	5.33	4.39	2.32
1.70V/cell	124.6	89.6	69.8	58.3	43.6	32.1	26.4	15.2	11.6	9.45	7.80	6.83	5.40	4.47	2.36
1.65V/cell	135.4	95.8	73.6	61.4	45.6	32.6	26.8	15.4	12.1	9.74	7.98	6.96	5.47	4.56	2.39
1.60V/cell	145.9	101.6	77.4	64.7	47.8	33.8	26.9	16.0	12.4	10.0	8.22	7.09	5.51	4.60	2.40

## Dimensions

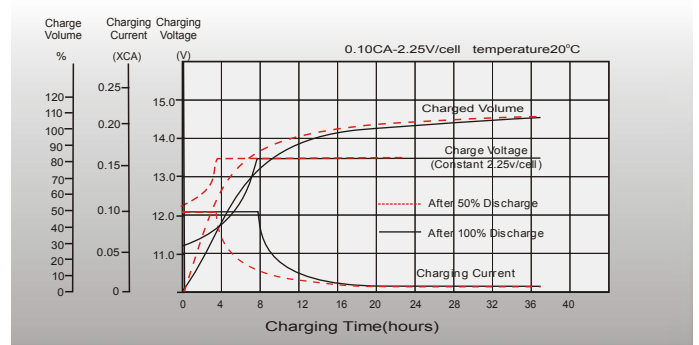
### T3 Terminal Unit: mm [inches]



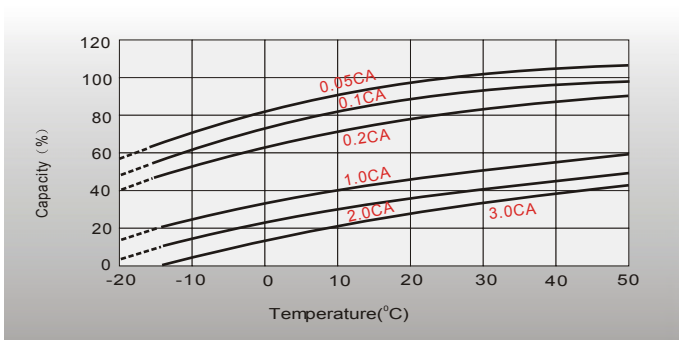
## Discharge Characteristics



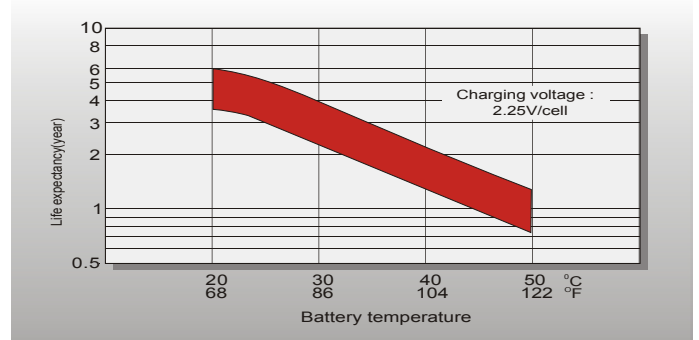
## Float Charging Characteristics



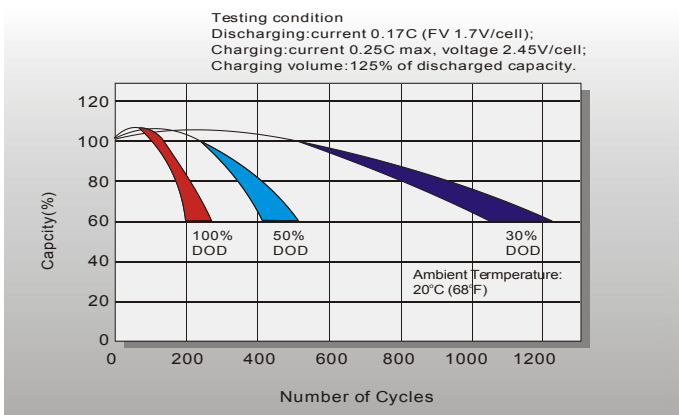
## Temperature Effects in Relation to Battery Capacity



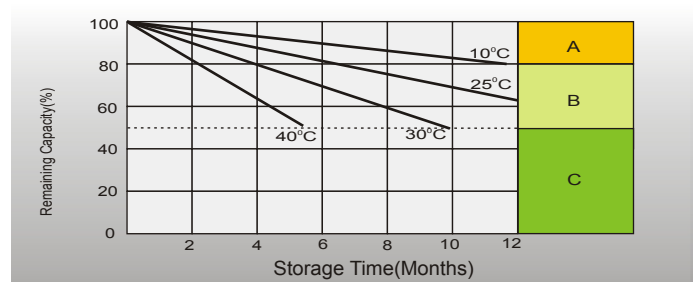
## Effect of Temperature on Long Term Float Life



## 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.