XLT Series - General Purpose
XLT12-17 12V 17.5Ah

Specifications

Nominal Voltage	12V	
Nominal Capacity(20HR)	17.5AH	
Dimension	Length	181.5±1mm (7.14 inches)
	Width	77±1mm (3.03 inches)
	Container Height	167.5±1mm (6.59 inches)
	Total Height (with Terminal)	167.5±1mm (6.59 inches)
Approx Weight	Approx 5.32kg (11.73lbs)	
Terminal	T3	
Container Ma terial	ABS	
Rated Cap acity	17.5 AH/0.873A	(20hr ,1.80V/cell,20 °C/68 °F)
	16.2 AH/1.62A	(10hr,1.80V/cell,20 °C/68 °F)
	14.7 AH/2.94A	(5hr,1.75V/cell,20 °C/68 °F)
	13.2 AH/4.41A	(3hr,1.75V/cell,20 °C/68 °F)
	10.7 AH/10.7A	(1hr,1.60V/cell,20 °C/68 °F)
Max. Dis charge C urrent	270A (5s)	
Internal Re sistance	Approx 16m Ù	
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 O perating Temp. R ange	20±3°C (68 ±5°F)	
Cycle Use	Initial C harging C urrent less than 5.4A.Voltage 14.25V~14.85V at 20°C (68°F) Temp. C oefficient -30mV/°C	
Standby Use	No limit on Initial C harging C urrent Voltage 13.4V~13.7V at 20°C (68°F) Temp. C oefficient -20mV/°C	
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	32.6	25.0	20.7	17.9	13.8	10.2	8.60	5.14	4.02	3.27	2.67	2.34	1.88	1.57	0.864
1.80V/cell	43.7	32.0	25.0	21.2	16.3	11.9	9.63	5.61	4.33	3.49	2.86	2.51	2.00	1.62	0.873
1.75V/cell	49.3	35.1	27.3	22.8	17.0	12.3	10.1	5.82	4.41	3.57	2.94	2.58	2.03	1.67	0.882
1.70V/cell	54.3	38.3	29.2	23.9	17.7	12.8	10.4	5.96	4.53	3.66	3.01	2.63	2.06	1.70	0.897
1.65V/cell	59.8	41.3	31.0	25.4	18.6	13.1	10.6	6.05	4.72	3.79	3.09	2.69	2.10	1.74	0.910
1.60V/cell	66.0	44.8	33.2	27.1	19.7	13.7	10.7	6.31	4.87	3.91	3.20	2.74	2.12	1.75	0.915

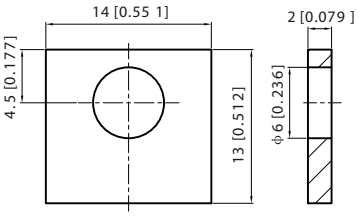
Constant Power Discharge (Watts) at 20 °C (68°F)

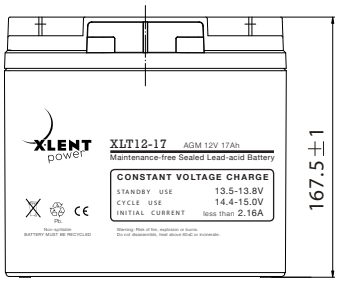
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	59.5	46.2	38.7	33.8	26.4	19.6	16.6	10.0	7.84	6.39	5.23	4.60	3.72	3.12	1.71
1.80V/cell	79.1	58.3	46.1	39.3	30.7	22.6	18.5	10.8	8.39	6.79	5.58	4.91	3.94	3.21	1.73
1.75V/cell	87.3	63.1	49.7	41.9	31.6	23.3	19.2	11.2	8.51	6.92	5.71	5.03	3.99	3.29	1.74
1.70V/cell	93.4	67.2	52.3	43.7	32.7	24.1	19.8	11.4	8.73	7.09	5.85	5.12	4.05	3.35	1.77
1.65V/cell	101.6	71.8	55.2	46.1	34.2	24.5	20.1	11.5	9.06	7.30	5.99	5.22	4.10	3.42	1.79
1.60V/cell	109.4	76.2	58.1	48.5	35.8	25.4	20.2	12.0	9.29	7.51	6.16	5.32	4.13	3.45	1.80

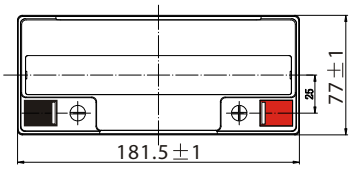
Dimensions

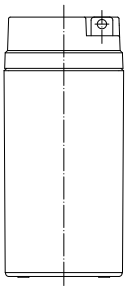
■ T3 Terminal

Unit: mm [inches]

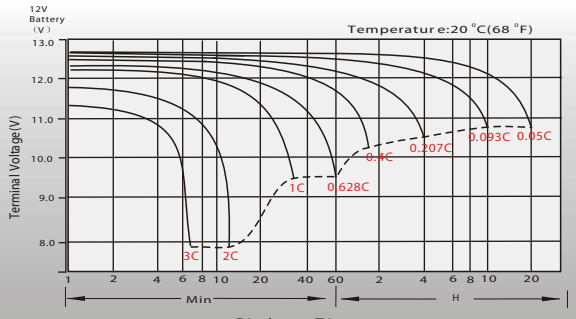




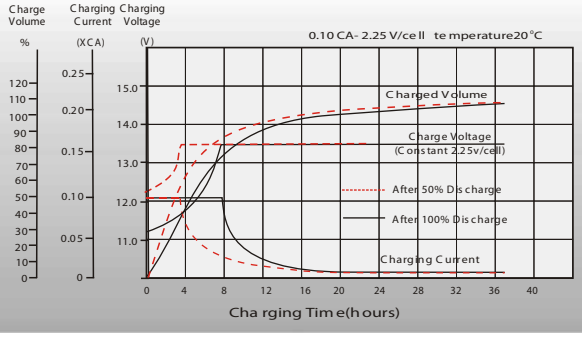




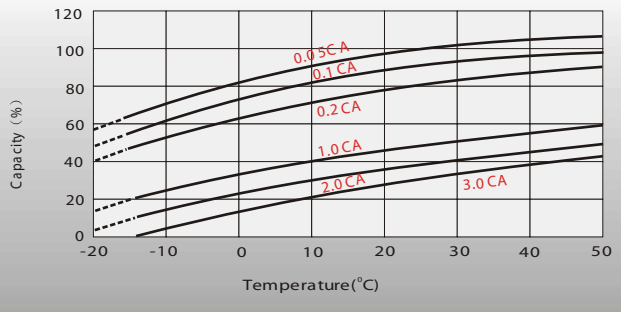
Discharge Characteristics



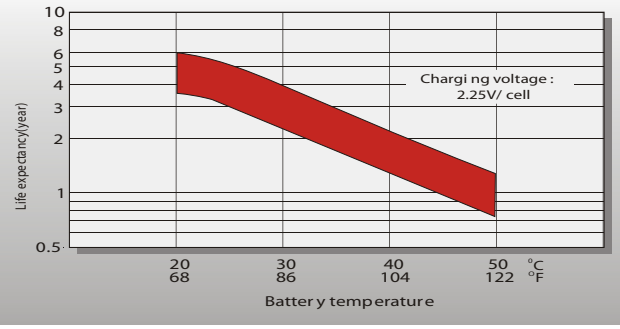
Float Charging Characteristics



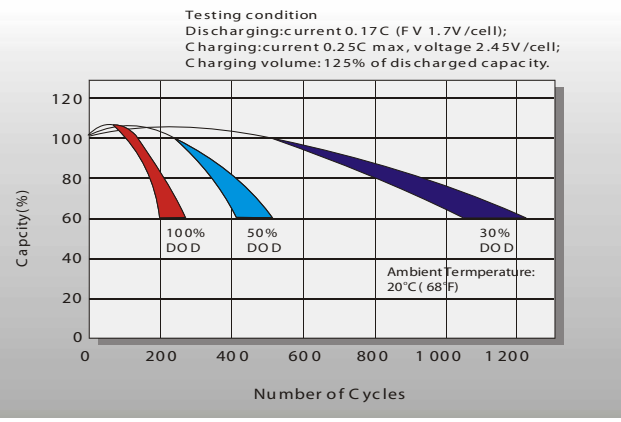
Temperature Effects in Relation to Battery Capacity



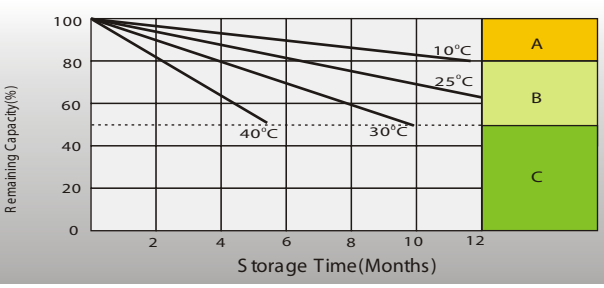
Effect of Temperature on Long Term Float Life



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 limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C — Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.