

Specification

Nominal Voltage	12V
Nominal Capacity(10HR)	42.0AH
Dimension	Length 197 ± 2mm (7.76 inches)
	Width 165 ± 1mm (6.49 inches)
	Container Height 170 ± 2mm (6.69 inches)
	Total Height (with Terminal) 170 ± 2mm (6.69 inches)
Approx Weight	Approx 13.0 kg (28.70lbs)
Terminal	T11
Container Material	ABS
Rated Capacity	43.6 AH/4.28A 20hr, 1.80V/cell, 25°C/77°F)
	42.0 AH/4.20A (10hr, 1.80V/cell, 25°C/77°F)
	33.07 AH/7.23A (5hr, 1.75V/cell, 25°C/77°F)
	32.7 AH/10.9A (3hr, 1.75V/cell, 25°C/77°F)
	25.62 AH/25.6A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	504A (5s) Ap-
Internal Resistance	prox 9mΩ
Operating Temp. Range	Discharge : -15~50°C (5~122°F)
	Charge : 0~40°C (32~104°F)
Nominal Operating Temp. Range	Storage : -15~40°C (5~104°F)
	25 ± 3°C (77 ± 5°F)
Cycle Use	Initial Charging Current less than 30.0A. Voltage 14.4V~15.0V at 25°C(77°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	LT series batteries may be stored for up to 6 months at 25°C(77°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 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	71.93	56.49	48.09	40.22	31.92	24.15	19.85	12.60	9.98	8.15	6.56	5.71	4.64	3.97	2.16
1.80V/cell	96.50	72.24	58.07	47.57	37.70	28.14	22.16	1376	10.71	8.69	7.06	6.13	4.92	4.20	2.18
1.75V/cell	108.78	79.38	63.42	51.14	39.17	29.19	23.21	14.28	10.92	8.89	7.22	6.30	5.01	4.24	2.21
1.70V/cell	119.81	86.52	67.73	53.76	40.74	30.35	23.94	14.81	11.24	9.12	7.41	6.43	5.08	4.28	2.25
1.65V/cell	132.09	93.35	72.03	57.12	42.95	31.08	24.78	15.23	11.76	9.44	7.62	6.57	5.16	4.37	2.28
1.60V/cell	145.74	101.33	76.97	60.80	45.36	32.45	25.62	15.75	12.08	9.73	7.88	6.72	5.21	4.42	2.29

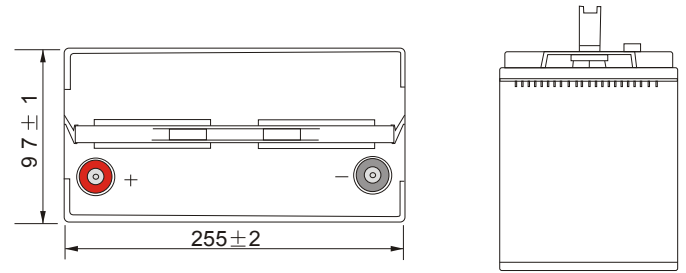
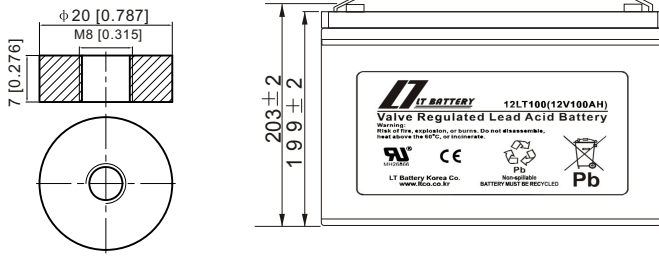
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	131.46	104.37	89.67	75.81	60.90	46.52	38.22	24.47	19.43	15.96	12.92	11.24	9.17	7.84	4.28
1.80V/cell	174.51	131.78	106.89	88.31	70.77	53.66	42.53	26.57	20.79	16.91	13.76	11.97	9.69	8.30	4.32
1.75V/cell	192.57	142.49	115.29	94.08	72.87	55.13	44.31	27.41	21.11	17.22	14.07	12.29	9.83	8.37	4.36
1.70V/cell	206.22	151.83	121.38	98.07	75.39	57.12	45.57	28.46	21.63	17.64	14.39	12.50	9.69	8.45	4.44
1.65V/cell	224.18	162.33	128.10	103.43	78.86	58.07	46.73	29.09	22.47	18.17	14.70	12.81	10.09	8.61	4.49
1.60V/cell	241.50	172.20	134.72	108.99	82.74	60.17	48.20	29.93	23.10	18.69	15.23	13.02	10.17	8.68	4.50

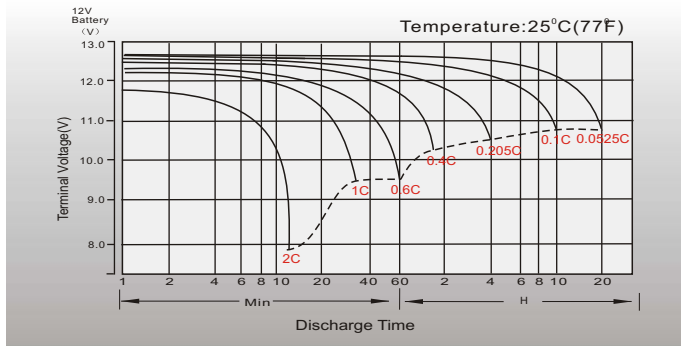
Dimensions

T11 Terminal

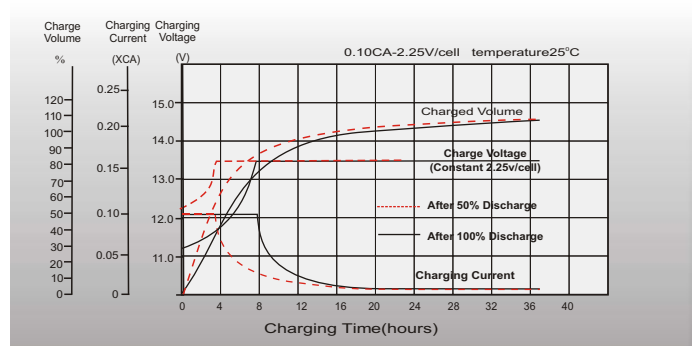
Unit: mm [inches]



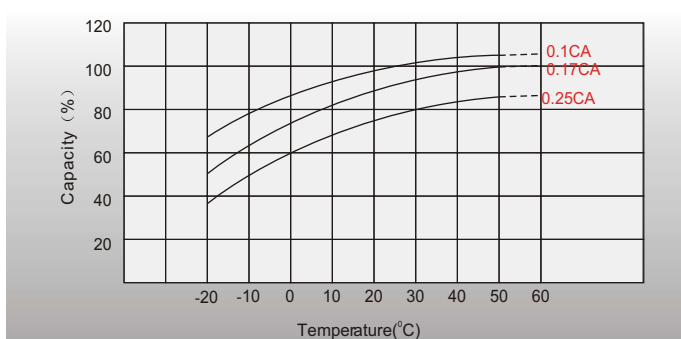
Discharge Characteristics



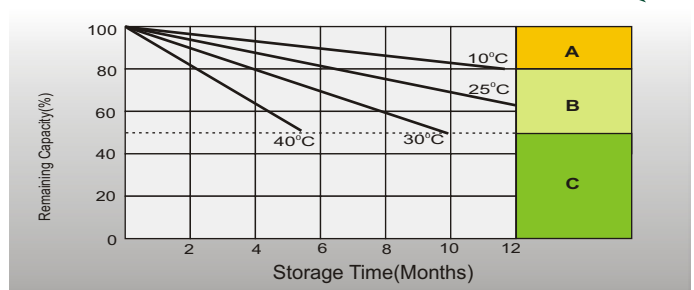
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity

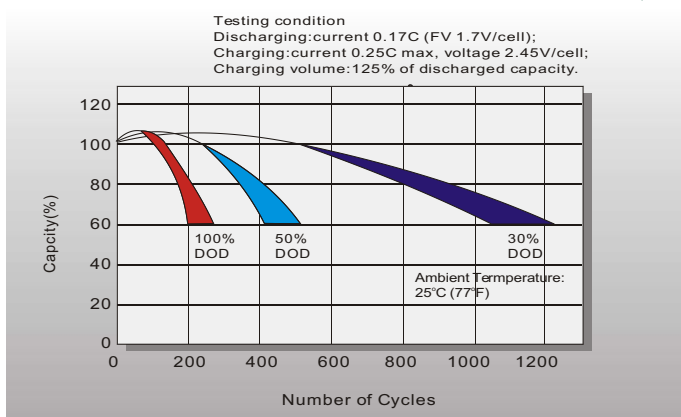


Self Discharge Characteristics

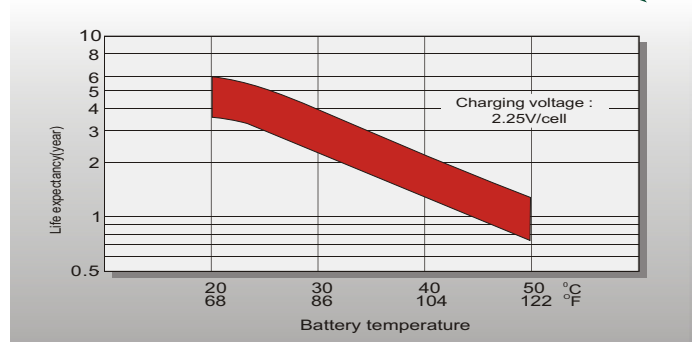


- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required).
- B** Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 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.

Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



ISO 9001 : 2008
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