

LECXO®

LX18-12 (12V-18AH)

RECHARGEABLE SEALED LEAD-ACID BATTERY



LX-Series

MADE IN VIETNAM



UPS
SYSTEM



GENERAL
PURPOSE



EMERGENCY
LIGHTING



MEDICAL



FIRE &
SECURITY

APPLICATIONS

- All purpose
- Uninterruptible Power Supply (UPS)
 - Electric Power System (EPS)
- Emergency backup power supply
 - Alarm and security system
- Communication power supply
 - DC power supply
 - Auto control system

GENERAL FEATURES

- 7 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
 - PbCaSn alloy for plate grids: less gassing, less self- discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

STANDARDS

Compliance with & Manufacturing Facilities Certified by:

- ISO 45001, 9001 & 14001
- IEC 60896 Standard
- EU Battery Directive
 - UL Certified
 - CE Certified

SPECIFICATIONS

Rated Voltage 12V

Nominal Capacity 18.0Ah (C₂₀ 1.75 V/Cell)

Dimension
Length 181.5±2mm (7.14inches)
Width 76.5±1mm (3.01 inches)
Container Height 167.5±2mm (6.59 inches)
Total Height 167.5±2mm (6.59 inches)

Approx Weight 5.4kg (11.9 lbs)

Terminal T1

Container Material ABS

Rated Capacity (25°C)
18.0Ah (20hr,0.900A, 1.75V/cell)
17.0Ah (10hr,1.70A,1.75 V/cell)
15.5Ah (5hr,3.10A,1.75 V/cell)
13.6Ah (3hr, 4.52A, 1.75 V/cell)
11.2Ah (1hr,11.2A, 1.60 V/cell)

Max. Discharge Current 35A (5s)

Internal Resistance (25°C) Approx 35m

Operating Temp. Range
Discharge -15 ~50° C (5 ~122° F)
Charge 0 ~40° C (32 ~104° F)
Storage -15 ~40° C (5 ~104° F)

National Operating Temp Range 25±3°C (77±5°F)

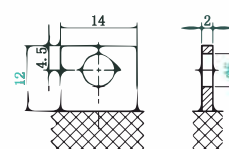
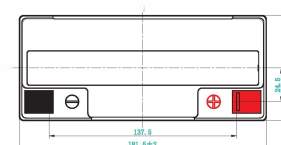
Cycle Use Initial Charging Current less than 3.6A Voltage
14.4V ~15.0V at 25°C (77°F) Temp . Coefficient - 30mV/°C

Standby Use Initial Charging Current less than 3.6A Voltage
13.5V ~13.8V at 25°C (77 °F) Temp Coefficient - 20m V/°C

Effect of Temp to Capacity
40°C (104°F) 103%
25°C (77°F) 100%
0°C (32°F) 86%

Self Discharge LX Series batteries may be stored for up to 6 months at 25° C (77 °F) and then a freshening charge is required. For higher temperature the time interval will be shorter

DIMENSIONS



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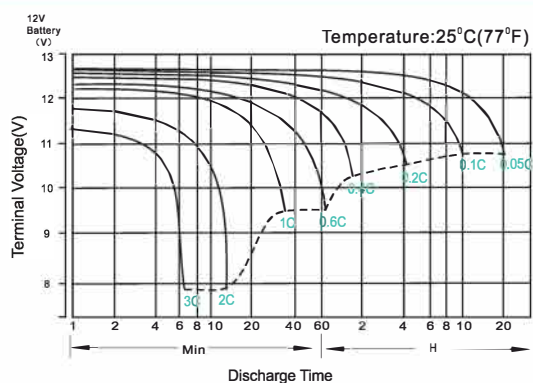
FIRE &
SECURITY



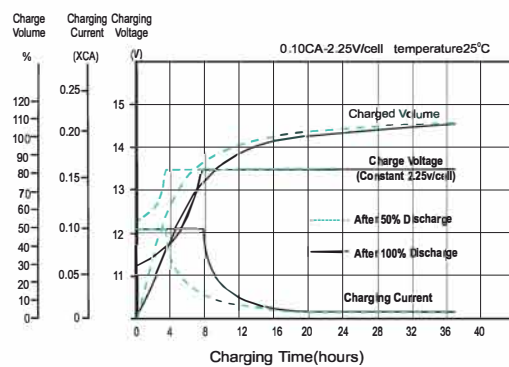
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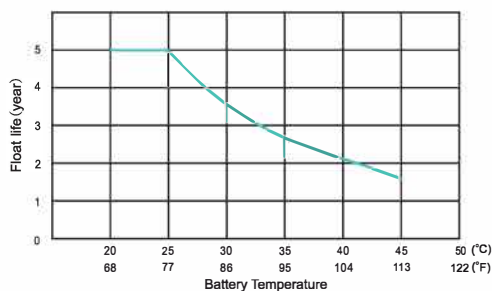
DISCHARGE CHARACTERISTICS



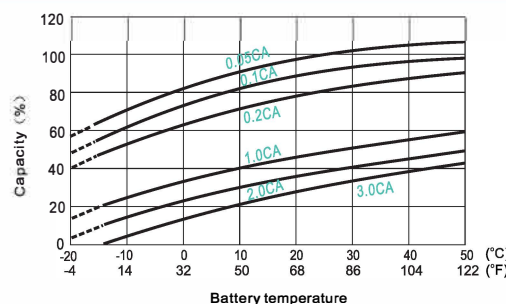
FLOAT CHARGING CHARACTERISTICS



FLOAT SERVICE LIFE



TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.v/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	49.1	33.7	26.2	21.9	16.6	12.3	10.2	7.5	6.0	4.37	3.52	3.02	2.58	2.03	1.66	0.880
1.80V/cell	52.8	35.7	27.5	22.7	17.1	12.6	10.4	7.7	6.1	4.44	3.57	3.06	2.62	2.06	1.69	0.890
1.75V/cell	55.7	37.1	28.4	23.4	17.5	12.9	10.6	7.8	6.2	4.52	3.62	3.10	2.65	2.09	1.70	0.900
1.70V/cell	58.3	38.6	29.4	24.0	18.0	13.2	10.8	8.0	6.3	4.58	3.67	3.14	2.68	2.11	1.72	0.907
1.67V/cell	60.3	39.7	30.1	24.5	18.3	13.4	11.0	8.1	6.4	4.63	3.71	3.17	2.71	2.12	1.73	0.914
1.60V/cell	64.0	41.4	31.1	25.3	18.8	13.7	11.2	8.2	6.5	4.71	3.77	3.22	2.75	2.15	1.75	0.924

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	93.0	64.1	50.2	42.1	32.1	23.8	19.8	14.7	11.7	8.59	6.94	5.95	5.11	4.03	3.31	1.76
1.80V/cell	99.0	67.5	52.4	43.6	32.9	24.4	20.2	15.0	11.9	8.72	7.03	6.03	5.18	4.09	3.35	1.78
1.75V/cell	103.2	69.7	53.8	44.5	33.6	24.8	20.5	15.2	12.1	8.83	7.12	6.10	5.23	4.13	3.38	1.80
1.70V/cell	107.0	72.0	55.2	45.6	34.3	25.3	20.8	15.4	12.2	8.95	7.20	6.17	5.29	4.17	3.41	1.81
1.67V/cell	109.8	73.6	56.4	46.4	34.8	25.6	21.1	15.6	12.4	9.02	7.26	6.22	5.33	4.20	3.43	1.83
1.60V/cell	114.2	75.8	57.9	47.6	35.6	26.1	21.5	15.9	12.6	9.17	7.37	6.30	5.40	4.25	3.47	1.85