

# LECXO®

## LX22-12(12V22AH)

### 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

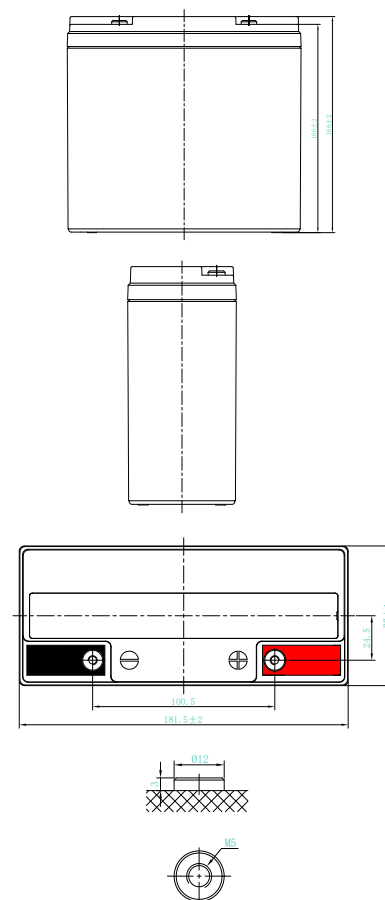
### STANDARDS

- Compliance with IEC60896 standards, EU Battery Directive
- Manufactured with IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

### SPECIFICATIONS

|                               |                  |                                                                                                                                                                         |
|-------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                 |                  | 12V                                                                                                                                                                     |
| Nominal Capacity              |                  | 22Ah (C <sub>20</sub> , 1.75V/cell)                                                                                                                                     |
| Dimension                     | Length           | 181.5±2mm (7.14 inches)                                                                                                                                                 |
|                               | Width            | 77±1mm (3.03 inches)                                                                                                                                                    |
|                               | Container Height | 166±2mm (6.54 inches)                                                                                                                                                   |
|                               | Total Height     | 166±2mm (6.54 inches)                                                                                                                                                   |
| Approx Weight                 |                  | 6.90 Kg (15.2 lbs)                                                                                                                                                      |
| Terminal                      |                  | T12(M5)                                                                                                                                                                 |
| Container Material            |                  | ABS                                                                                                                                                                     |
| Rated Capacity(25°C)          | 20.0 Ah          | (20hr, 1.00A, 1.75V/cell)                                                                                                                                               |
|                               | 18.8 Ah          | (10hr, 1.88A, 1.75V/cell)                                                                                                                                               |
|                               | 17.2 Ah          | (5hr, 3.44A, 1.75V/cell)                                                                                                                                                |
|                               | 15.8 Ah          | (3hr, 5.26A, 1.75V/cell)                                                                                                                                                |
|                               | 13.9 Ah          | (1hr, 13.9A, 1.60V/cell)                                                                                                                                                |
| Max. Discharge Current        |                  | 300A (5s)                                                                                                                                                               |
| Internal Resistance(25°C)     |                  | Approx 9.0mΩ                                                                                                                                                            |
| Operating Temp. Range         | Discharge        | -15 ~ 50° C ( 5 ~ 122° F )                                                                                                                                              |
|                               | Charge           | -20 ~ 40° C ( -4 ~ 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 6.0A. Voltage 14.1V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C                                                                    |
| Standby Use                   |                  | Initial Charging Current less than 6.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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 temperatures the time interval will be shorter. |

### DIMENSIONS



T12

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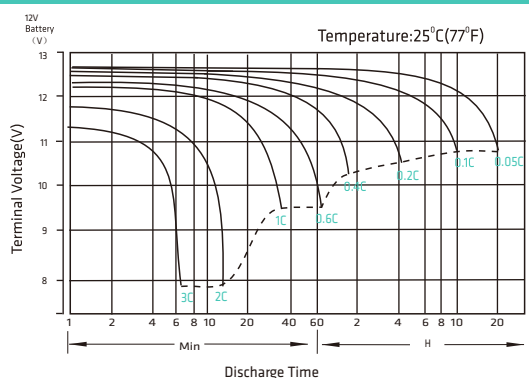
FIRE &  
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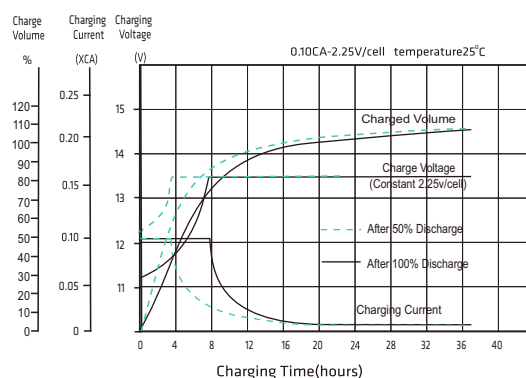
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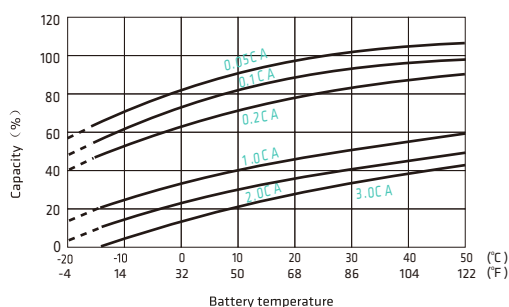
### DISCHARGE CHARACTERISTICS



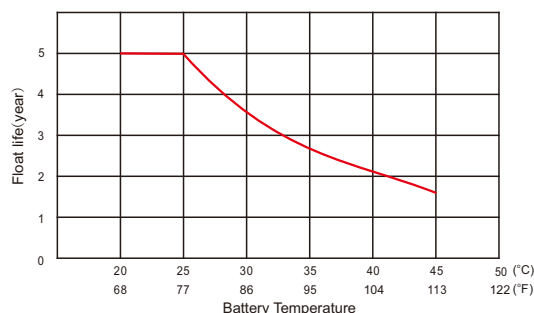
### FLOAT CHARGING CHARACTERISTICS



### TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



### FLOAT SERVICE LIFE



### 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 | 60.1 | 44.2  | 36.9  | 30.1  | 22.6  | 16.5  | 13.20 | 7.69 | 5.62 | 4.43 | 3.69 | 3.16 | 2.48 | 2.02 | 1.08 |
| 1.80V/cell | 68.2 | 48.6  | 40.2  | 32.5  | 24.2  | 17.4  | 14.30 | 7.80 | 5.70 | 4.49 | 3.74 | 3.19 | 2.51 | 2.05 | 1.09 |
| 1.75V/cell | 75.2 | 52.0  | 42.5  | 34.2  | 25.2  | 18.2  | 14.52 | 7.93 | 5.79 | 4.55 | 3.78 | 3.23 | 2.54 | 2.07 | 1.10 |
| 1.70V/cell | 82.1 | 55.3  | 44.7  | 35.8  | 26.2  | 18.7  | 14.85 | 8.05 | 5.87 | 4.62 | 3.83 | 3.28 | 2.57 | 2.10 | 1.11 |
| 1.67V/cell | 85.5 | 56.8  | 45.7  | 36.3  | 26.5  | 18.9  | 14.96 | 8.13 | 5.92 | 4.65 | 3.86 | 3.30 | 2.59 | 2.11 | 1.12 |
| 1.60V/cell | 93.1 | 60.3  | 47.6  | 37.7  | 27.4  | 19.5  | 15.29 | 8.29 | 6.04 | 4.74 | 3.94 | 3.36 | 2.63 | 2.15 | 1.13 |

### Constant Power Discharge (Watts/cell) 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 | 114.1 | 84.6  | 70.8  | 57.9  | 43.5  | 31.9  | 25.6 | 15.1 | 11.00 | 8.72 | 7.28 | 6.24 | 4.92 | 4.02 | 2.16 |
| 1.80V/cell | 128.8 | 92.5  | 76.8  | 62.3  | 46.4  | 33.7  | 27.7 | 15.3 | 11.22 | 8.83 | 7.37 | 6.31 | 4.97 | 4.06 | 2.18 |
| 1.75V/cell | 141.1 | 98.5  | 80.7  | 65.1  | 48.3  | 34.9  | 28.2 | 15.4 | 11.33 | 8.94 | 7.45 | 6.38 | 5.03 | 4.11 | 2.20 |
| 1.70V/cell | 152.9 | 104.1 | 84.5  | 67.8  | 49.9  | 36.0  | 28.5 | 15.6 | 11.44 | 9.04 | 7.54 | 6.46 | 5.08 | 4.16 | 2.22 |
| 1.67V/cell | 158.7 | 106.5 | 86.0  | 68.8  | 50.6  | 36.3  | 28.8 | 15.7 | 11.55 | 9.11 | 7.59 | 6.50 | 5.12 | 4.18 | 2.23 |
| 1.60V/cell | 171.3 | 112.0 | 89.2  | 71.0  | 51.8  | 37.1  | 29.4 | 16.1 | 11.77 | 9.26 | 7.70 | 6.60 | 5.19 | 4.25 | 2.27 |