

## LX1.2-6 (6V-1.2AH)

### RECHARGEABLE SEALED LEAD-ACID BATTERY



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

- 8 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

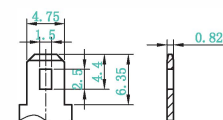
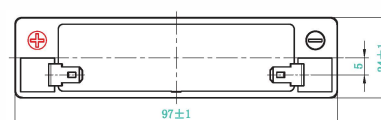
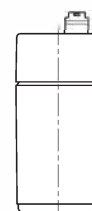
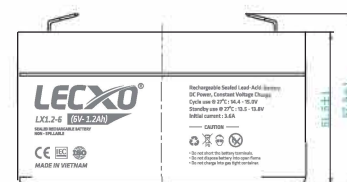
#### Compliance with & Manufacturing Facilities Certified by:

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

### SPECIFICATIONS

|                               |                                                                                                        |                                                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                 |                                                                                                        | 6V                                                                                                                                                                       |
| Nominal Capacity              | 1.2Ah                                                                                                  | (C <sub>20</sub> 1.75 V/Cell)                                                                                                                                            |
| Dimension                     | Length                                                                                                 | 97±1mm (3.82 inches)                                                                                                                                                     |
|                               | Width                                                                                                  | 24±1mm (0.94 inches)                                                                                                                                                     |
|                               | Container Height                                                                                       | 51.5±1mm (2.03 inches)                                                                                                                                                   |
|                               | Total Height                                                                                           | 57.5±1mm (2.26 inches)                                                                                                                                                   |
| Approx Weight                 |                                                                                                        | 0.29 Kg (0.64 lbs)                                                                                                                                                       |
| Terminal                      |                                                                                                        | T1                                                                                                                                                                       |
| Container Material            |                                                                                                        | ABS                                                                                                                                                                      |
| Rated Capacity (25°C)         | 1.20Ah                                                                                                 | (20hr, 0.060A, 1.75V/cell)                                                                                                                                               |
|                               | 1.13 Ah                                                                                                | (10hr, 0.113A, 1.75V/cell)                                                                                                                                               |
|                               | 1.04Ah                                                                                                 | (5hr, 0.207A, 1.75V/cell)                                                                                                                                                |
|                               | 0.918 Ah                                                                                               | (3hr, 0.306A, 1.75V/cell)                                                                                                                                                |
|                               | 0.789 Ah                                                                                               | (1hr, 0.789A, 1.60V/cell)                                                                                                                                                |
|                               |                                                                                                        |                                                                                                                                                                          |
| Max. Discharge Current        |                                                                                                        | 18A (5s)                                                                                                                                                                 |
| Internal Resistance (25°C)    |                                                                                                        | Approx 65mΩ                                                                                                                                                              |
| 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 0.36A. Voltage 7.2V~7.5V at 25°C (77°F) Temp. Coefficient -15mV/°C  |                                                                                                                                                                          |
|                               |                                                                                                        |                                                                                                                                                                          |
| Standby Use                   | Initial Charging Current less than 0.36A. Voltage 6.75V~6.9V at 25°C (77°F) Temp. Coefficient -10mV/°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



T1

# LECXO®

## LX1.2-6 (6V-1.2AH)

### RECHARGEABLE SEALED LEAD-ACID BATTERY



UPS  
SYSTEM



GENERAL  
PURPOSE



EMERGENCY  
LIGHTING



MEDICAL

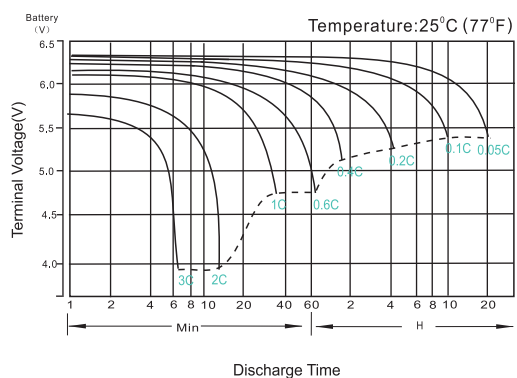


FIRE &  
SECURITY

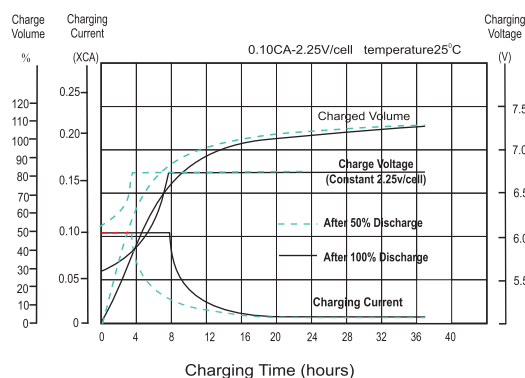


LX-Series  
MADE IN VIETNAM

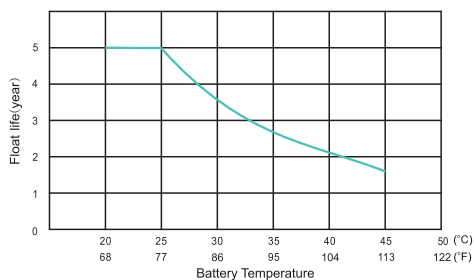
### DISCHARGE CHARACTERISTICS



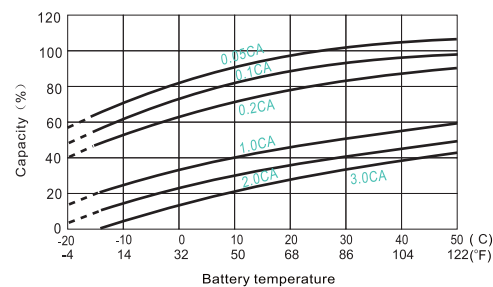
### FLOAT CHARGING CHARACTERISTICS



### 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 | 3.73 | 2.28  | 1.78  | 1.48  | 1.10  | 0.813 | 0.714 | 0.523 | 0.411 | 0.296 | 0.236 | 0.201 | 0.172 | 0.136 | 0.111 | 0.059 |
| 1.80V/cell | 4.01 | 2.42  | 1.86  | 1.54  | 1.14  | 0.835 | 0.731 | 0.534 | 0.418 | 0.301 | 0.240 | 0.204 | 0.175 | 0.138 | 0.112 | 0.059 |
| 1.75V/cell | 4.23 | 2.52  | 1.92  | 1.59  | 1.17  | 0.853 | 0.746 | 0.543 | 0.426 | 0.306 | 0.243 | 0.207 | 0.177 | 0.139 | 0.113 | 0.060 |
| 1.70V/cell | 4.43 | 2.62  | 1.99  | 1.63  | 1.20  | 0.872 | 0.760 | 0.553 | 0.432 | 0.311 | 0.246 | 0.209 | 0.179 | 0.141 | 0.115 | 0.060 |
| 1.67V/cell | 4.58 | 2.69  | 2.04  | 1.67  | 1.22  | 0.886 | 0.771 | 0.560 | 0.437 | 0.314 | 0.249 | 0.211 | 0.181 | 0.142 | 0.115 | 0.061 |
| 1.60V/cell | 4.86 | 2.80  | 2.11  | 1.72  | 1.25  | 0.908 | 0.789 | 0.572 | 0.446 | 0.319 | 0.253 | 0.215 | 0.183 | 0.144 | 0.117 | 0.062 |

### 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 | 7.06 | 4.34  | 3.40  | 2.86  | 2.13  | 1.58  | 1.39 | 1.02 | 0.804 | 0.583 | 0.465 | 0.397 | 0.341 | 0.269 | 0.220 | 0.117 |
| 1.80V/cell | 7.52 | 4.57  | 3.55  | 2.96  | 2.19  | 1.61  | 1.42 | 1.04 | 0.817 | 0.591 | 0.471 | 0.402 | 0.345 | 0.273 | 0.223 | 0.119 |
| 1.75V/cell | 7.84 | 4.72  | 3.64  | 3.02  | 2.23  | 1.64  | 1.44 | 1.05 | 0.830 | 0.599 | 0.477 | 0.407 | 0.349 | 0.275 | 0.225 | 0.120 |
| 1.70V/cell | 8.13 | 4.87  | 3.74  | 3.09  | 2.28  | 1.67  | 1.46 | 1.07 | 0.840 | 0.607 | 0.483 | 0.412 | 0.353 | 0.278 | 0.227 | 0.121 |
| 1.67V/cell | 8.34 | 4.98  | 3.82  | 3.15  | 2.32  | 1.70  | 1.48 | 1.08 | 0.848 | 0.612 | 0.487 | 0.415 | 0.356 | 0.280 | 0.229 | 0.122 |
| 1.60V/cell | 8.68 | 5.13  | 3.92  | 3.23  | 2.37  | 1.73  | 1.51 | 1.10 | 0.862 | 0.621 | 0.494 | 0.420 | 0.360 | 0.284 | 0.232 | 0.123 |