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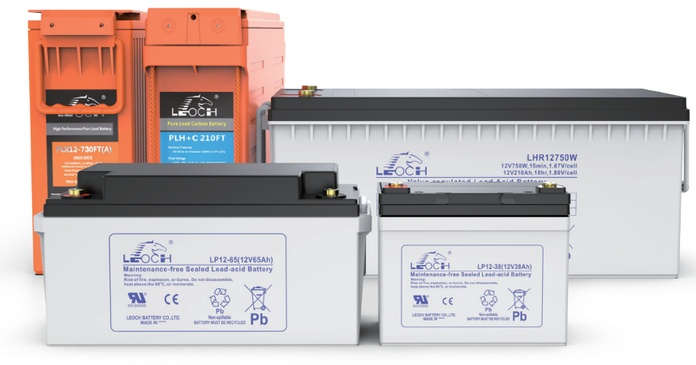
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LEOCH BATTERY

# TELECOM CATV SOLUTIONS

- ·Pure Lead Punched Grid
- ·Lithium Iron Phosphate ($LiFePO_4$)
- ·High Temperature Design
- ·VRLA-AGM
- ·Tubular Gel & Tubular Flooded




**Stock Code:00842.HK**

# LEOCH® TELECOM/CATV BATTERY RANGE

| SERIES | LFELI SERIES | PLH SERIES | LHT SERIES | LPF SERIES | LPL SERIES | OPzS SERIES | OPzV SERIES | LPG/LPFG SERIES |
|---|---|---|---|---|---|---|---|---|
| **TECHNOLOGY** | LITHIUM IRON PHOSPHATE (LIFEPO4) | PURE LEAD | HIGH-TEMPERATURE ALLOY | FRONT TERMINAL AGM VRLA | AGM VRLA MONO BLOCK | TUBULAR FLOODED | TUBULAR GEL | FRONT & TOP TERMINAL GEL VRLA |
| **COST** | ♦♦♦♦♦ | ♦♦♦♦ | ♦♦♦♦ | ♦♦♦ | ♦♦ | ♦♦♦♦ | ♦♦♦♦ | ♦♦♦♦ |
| **CAPACITY RANGE** | (48V) 10-100 Ah | (12V) 38-210 Ah | (12V&2V) 100Ah-1000Ah | (12V) 40-200Ah | (12V&2V) 6.5Ah-3000Ah | (2V) 100-3000Ah | (2V) 200-3000Ah | (2V) 100-3000Ah<br>(12V) 65Ah-150Ah |
| **DESIGN LIFE** | 20 Years | 20 Years | 2V:15Years<br>12V:10Years<br>(95°F/35°C) | 12 Years | 2V 16Years<br>12V ≥38Ah 12Years<br>12V ＜38Ah 10-12Years | 20 Years | 20 Years | 12V ＜38Ah 6Years<br>12V ≥38Ah 12Years<br>2V 16Years |
| **SHELF LIFE** | 24 Months | 24 Months | 6 Months | 6 Months | 6 Months | 6 Months | 6 Months | 9 Months |
| **OPERATING TEMPERATURE** | -4°F to 140°F (-20°C to 60°C) | -40°F to 149°F (-40°C to 65°C) | -40°F to 149°F (-40°C to 65°C) | -4°F to 122°F (-20°F to 50°F) | -4°F to 122°F (-20°C to 50°C) | 5°F to 131°F (-15°C to 55°C) | -4°F to 131°F (-20°C to 55°C) | -4°F to 140°F (-20°C to 60°C) |
| **FLAME RETARDANT** | STANDARD | UL94V-0 | UL94V-0 | UL94V-0/ UL94HB | UL94V-0/ UL94HB | UL94HB | UL94V-0/ UL94HB | UL94V-0/ UL94HB |
| **JAR TYPE** | STEEL | ABS + PC | ABS + PC | ABS | ABS | SAN | ABS | ABS |
| **TERMINAL TYPE** | - | M6 | M6, M8 | M6, M8 | M6, M8 | M8,M10 | M8 | Flag M6.5,<br>Insert M5,<br>M6, M8 |

# PLH SERIES-PURE LEAD VRLA AGM BATTERIES

## Features & Benefits

- Capacity 38 to 210 Ah
- True Pure Lead Technology for exceptional performance
- Easy Installation - Ideal for 19"/23" standard cabinets
- Lower Float Current for long life
- Premium ABS+PC(FR)jar & cover to UL94V-0 & >28% LOI
- Highly automated COS & TTP welding
- 20 Year Design Life for Critical Telecom Applications
- Extreme temperature range, -40°F to 149°F (-40°C to 65°C)
- Low internal resistance with 2-year shelf life
- 100% Initial Capacity, Fast Charging Acceptance
- Large top post & brass front terminal adapter
- Front accessible gas port for air tight enclosures
- True Front Access Terminals - forward sliding safety shield for zero overhead space required
- UL Recognized,NEBSTM 3 GR63,IEC 60896-21-22 and IATA Approved for Air Freight




Pure Lead Batteries

## Applications

Critical Standby battery back-up applications where the energy is stored in reserve in batteries and ready for use whenever needed. Typical critical battery back-up applications are:

- Central Office/Switching Centers
- Network Access
- Passive Optical Lan
- In-building Wireless
- 5G Small Cells
- Macro Cell
- Microwave Towers
- Cellular Towers
- Edge Computing

## Specifications

| Model | Rated Voltage (V) | 10hr@1.80 V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|
| PLH26 | 12 | 26 | 250 | 100 | 152.5 | 152.5 | 9.5 | T6(M6) |
| PLH40FT(A) | 12 | 38 | 298.7 | 97 | 184 | 184 | 12.5 | T6(M6) |
| PLH62FT(A) | 12 | 62 | 298.7 | 97 | 267 | 267 | 19.1 | T6(M6) |
| PLH90FT(A) | 12 | 90 | 405.4 | 108 | 287 | 287 | 28.7 | T8(M6) |
| PLH100FT(A) | 12 | 100 | 405.4 | 108 | 287 | 287 | 30.8 | T8(M6) |
| PLH110FT(A) | 12 | 110 | 559 | 125 | 227 | 227 | 36.5 | T8(M6) |
| PLH150FT(A) | 12 | 150 | 559 | 125 | 277 | 277 | 48 | T8(M6) |
| PLH170FT(A) | 12 | 170 | 559 | 125 | 320 | 320 | 54.2 | T8(M6) |
| PLH190FT(A) | 12 | 190 | 559 | 125 | 320 | 320 | 57.6 | T8(M6) |
| PLH210FT(A) | 12 | 210 | 559 | 125 | 328 | 328 | 60.5 | T8(M6) |

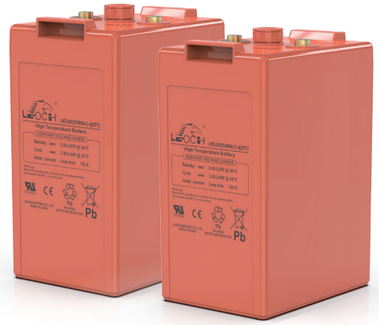
- Nominal capacity: 10 hour rate to 1.80Vpc @77°F(25°C)



# LHT SERIES-HIGH TEMPERATURE VRLA AGM BATTERIES

## Features & Benefits

- Capacity 100 to 1000Ah
- High Temperature paste formula customized for critical telecom applications
- Constructed using high-purity raw materials for longer life
- Long life design of up to 10 years (12V) and 15 years (2V) at 35°C
- Extreme Temperature Range: -40°F to 149°F (-40°C to 65°C)
- Premium ABS+PC (FR) jar & cover to UL94 V-0 &>28% LOI
- UL Recognized, NEBSTM 3 GR63, IEC 60896-21-22 and IATA Approved for Air Freight




## Specifications

| Model | Rated Voltage (V) | 10hr@1.80 V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|
| LHT12-100 | 12 | 100 | 330 | 173 | 212 | 218 | 33.5 | T11(M8) |
| LHT12-150 | 12 | 150 | 532 | 207 | 214 | 220 | 56 | T11(M8) |
| LHT12-200 | 12 | 200 | 522 | 240 | 218 | 224 | 67.4 | T11(M8) |
| LHT2-200 | 2 | 200 | 170 | 110 | 328 | 348 | 13.5 | T11(M8) |
| LHT2-300 | 2 | 300 | 170 | 150 | 328 | 348 | 18.8 | T11(M8) |
| LHT2-500 | 2 | 500 | 240 | 175 | 330 | 350 | 30 | T11(M8) |
| LHT2-800 | 2 | 800 | 410 | 175 | 330 | 350 | 50.4 | T11(M8) |
| LHT2-1000 | 2 | 1000 | 475 | 175 | 328 | 350 | 60 | T11(M8) |
| LHTF12-100 | 12 | 100 | 394 | 110 | 286 | 286 | 31.5 | T6(M6) |
| LHTF12-150 | 12 | 150 | 551 | 110 | 288 | 288 | 46.6 | T6(M6) |
| LHTF12-200 | 12 | 190 | 560 | 126 | 320 | 320 | 59.5 | T11(M8) |

# LPF/LPFG SERIES-FRONT TERMINAL VRLA AGM & GEL

## Features & Benefits

- Capacity (12V)40-200Ah
- Virgin lead is used to make plates and paste alloy for long life
- Copper alloy terminal insert for low resistance
- Easy access to front terminals, speeds voltage & ohmic readings
- Solid ABS jar & covers (UL94V-0 Flame Retardant available)
- Strong gravity casted grids for long life
- Designed for Critical Telecom Application 12 yr design life
- Temperature Range: -4°F to 122°F(-20°C to 50°C)
- 100% initial capacity, & streamlined designed speeds installation
- UL Recognized,NEBSTM 3 GR63,IEC 60896-21-22 and IATA Approved for Air Freight



## Specifications

| Model | Rated Voltage (V) | 20hr@1.80V/cell | 10hr@1.80V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|---|
| LPF12-40 | 12 | / | 40 | 277 | 106 | 222 | 222 | 14.6 | T6(M6) |
| LPF12-50 | 12 | / | 50 | 390 | 105 | 200 | 200 | 18.5 | T6(M6) |
| LPF12-55 | 12 | / | 55 | 277 | 106 | 222 | 222 | 17.3 | T6(M6) |
| LPF12-70 | 12 | / | 70 | 564 | 114 | 187 | 187 | 25.5 | T6(M6) |
| LPF12-75 | 12 | / | 75 | 564 | 114 | 187 | 187 | 26 | T6(M6) |
| LPF12-90 | 12 | / | 90 | 394 | 110 | 285 | 285 | 31 | T6(M6) |
| LPF12-100 | 12 | / | 100 | 394 | 110 | 286 | 286 | 31 | T6(M6) |
| LPF12-100A | 12 | / | 100 | 508 | 110 | 238.5 | 238.5 | 32 | T13(M6) |
| LPF12-100(P) | 12 | / | 100 | 405.4 | 108 | 287 | 287 | 29.8 | T8(M6) |
| LPF12-125 | 12 | / | 125 | 551 | 110 | 288 | 288 | 41.5 | T6(M6) |
| LPF12-150 | 12 | / | 150 | 551 | 110 | 288 | 288 | 44.8 | T6(M6) |
| LPF12-150V | 12 | / | 150 | 550 | 125 | 281.5 | 281.5 | 50.6 | T8(M6) |
| LPF12-170 | 12 | / | 170 | 550 | 125 | 281.5 | 281.5 | 51 | T8(M6) T11(M8) |
| LPF12-190(P) | 12 | / | 190 | 559 | 125 | 320 | 320 | 56.8 | T8(M6) |
| LPF12-190 | 12 | / | 190 | 560 | 126 | 320 | 320 | 57 | T8(M6) |
| LPF12-200 | 12 | / | 200 | 560 | 126 | 320 | 320 | 61 | T11(M8) |
| LPFG12-70 | 12 | 70 | 65 | 564 | 114 | 187 | 187 | 26.7 | T6(M6) |
| LPFG12-100H | 12 | 95 | 90 | 394 | 110 | 285 | 285 | 35 | T6(M6) |
| LPFG12-150 | 12 | 138 | 130 | 551 | 110 | 288 | 288 | 47.4 | T6(M6) |
| LPFG12-180 | 12 | 160 | 150 | 550 | 125 | 281.5 | 281.5 | 51.8 | T8(M6) |



# LPL SERIES-SMALL MONO-BLOCK VRLA AGM BATTERIES

## Features & Benefits

- Capacity 6.5 to 28Ah
- Virgin lead is used to make plates and paste alloy for long life
- Copper alloy terminal insert for low resistance
- Solid ABS jar & covers (UL94V-0 Flame Retardant available
- Strong gravity casted grids for long life
- Designed for Critical Telecom Application 10 to 12 yr design life
- Temperature Range: -4°F to 122°F (-20°C to 50°C)
- 100% initial capacity
- UL Recognized,NEBSTM 3 GR63,IEC 60896-21-22 and IATA Approved for Air Freight



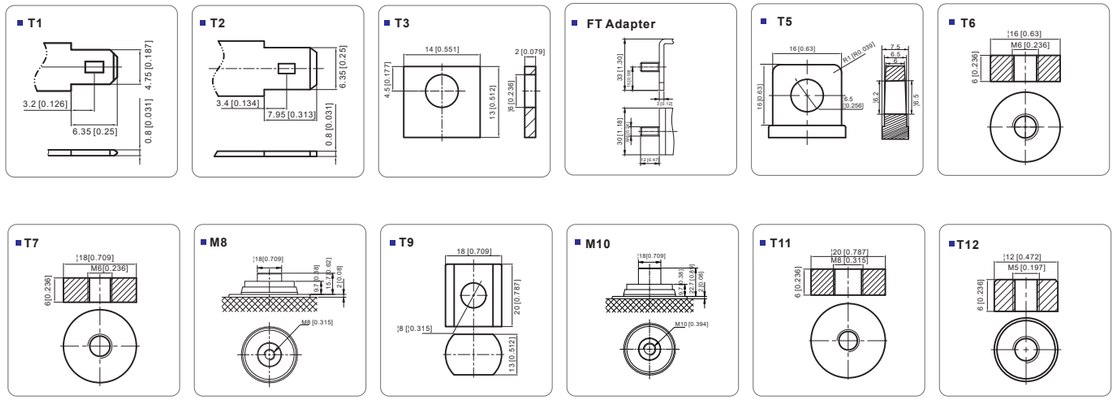

**Mono-Block Battery Solutions**
VRLA(Value Regulated Lead Acid)-AGM(Absorbed Glass Mat)

## Specifications

| Model | Rated Voltage (V) | 20hr@1.75V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|
| LPL6-6.5 | 6 | 6.5 | 150 | 34 | 94 | 100 | 1.26 | T1/T2 |
| LPL6-9.0 | 6 | 9 | 151 | 50.5 | 94 | 100 | 1.7 | T1/T2 |
| LPL6-11 | 6 | 11 | 151 | 50.5 | 94 | 100 | 1.95 | T1/T2 |
| LPL6-18 | 6 | 18 | 157 | 83 | 125 | 125 | 3.3 | T3-A |
| LPL12-7.0 | 12 | 7 | 151 | 65 | 93.5 | 99.5 | 2.43 | T1/T2 |
| LPL12-12 | 12 | 12 | 151 | 98 | 95 | 101 | 3.87 | T1/T2 |
| LPL12-18 | 12 | 18 | 181.5 | 76.5 | 167.5 | 167.5 | 5.7 | T3 |
| LPL12-24 | 12 | 24 | 166 | 175 | 125 | 125 | 7.6 | T12-I/T12(M5) |
| LPL12-28H | 12 | 28 | 164 | 125 | 176 | 176 | 9.1 | T3-A/T2 |
| LPL12-28 | 12 | 28 | 166 | 175 | 125 | 125 | 8.2 | T12/T12-I(M5) |

## LEOCH VRLA-AGM BATTERY TERMINAL OPTIONS

Unit:mm[Inch]



# LPL SERIES-LARGE MONO-BLOCK VRLA AGM BATTERIES

## Features & Benefits

- Capacity 38 to 250Ah
- Virgin lead is used to make plates and paste alloy for long life
- Solid ABS jar & covers (UL94V-0 Flame Retardant available)
- Copper alloy terminal insert for low resistance
- Strong gravity casted grids for long life
- Designed for Critical Telecom Application - 12 yr design life
- Temperature Range: -4°F to 122°F (-20°C to 50°C)
- 100% initial capacity
- UL Recognized,NEBSTM 3 GR63,IEC 60896-21-22 and IATA Approved for Air Freight




## Specifications

| Model | Rated Voltage (V) | 10hr@1.80 V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|
| LPL12-38 | 12 | 38 | 197 | 165 | 170 | 170 | 12.7 | T6(M6) |
| LPL12-40 | 12 | 40 | 197 | 165 | 170 | 170 | 14.5 | T6(M6) |
| LPL12-45 | 12 | 45 | 197 | 165 | 170 | 170 | 14.2 | T6(M6) |
| LPL12-55 | 12 | 55 | 229 | 138 | 210 | 230 | 17.7 | T9 |
| LPL12-60 | 12 | 60 | 260 | 168 | 210 | 216 | 20.7 | T6(M6) |
| LPL12-65 | 12 | 65 | 348 | 167 | 178 | 178 | 21 | T6(M6) |
| LPL12-70 | 12 | 70 | 348 | 167 | 178 | 178 | 23.1 | T6(M6) |
| LPL12-75 | 12 | 75 | 260 | 168 | 208 | 214 | 22.7 | T6(M6) |
| LPL12-90(P) | 12 | 90 | 330 | 173 | 213 | 220 | 27.1 | T11(M8) |
| LPL12-90H | 12 | 90 | 330 | 173 | 212 | 220 | 29.5 | T11(M8) |
| LPL12-100(P) | 12 | 100 | 330 | 173 | 213 | 220 | 28.2 | T11(M8) |
| LPL12-100 | 12 | 100 | 330 | 173 | 212 | 220 | 30.5 | T11(M8) |
| LPL12-120 | 12 | 120 | 408 | 177 | 225 | 225 | 36.3 | T11(M8) |
| LPL12-150 | 12 | 150 | 483 | 170 | 238.5 | 238.5 | 46.5 | T11(M8) |
| LPL12-200 | 12 | 200 | 522 | 240 | 218 | 224 | 62.3 | T11(M8) |
| LPL12-225 | 12 | 225 | 522 | 268 | 220 | 226 | 70.5 | T11(M8) |
| LPL12-250 | 12 | 250 | 522 | 268 | 220 | 226 | 76.5 | T11(M8) |



# LPL SERIES - SINGLE CELL AGM BATTERIES

## Features & Benefits

- Capacity 100 to 3000Ah
- Virgin lead is used to make plates and paste alloy for long life
- Copper alloy terminal insert for low resistance
- Solid ABS jar & covers (UL94V-0 Flame Retardant available)
- Strong gravity casted grids for long life
- Designed for Critical Telecom Application - 16 yr design life
- Temperature Range: -4°F to 122°F (-20°C to 50°C)
- 100% initial capacity
- UL Recognized,NEBSTM 3 GR63,IEC 60896-21-22 and IATA Approved for Air Freight



**Single-cell Jar Battery Solutions**
VRLA(Value Regulated Lead Acid)

## Specifications

| Model | Rated Voltage (V) | 10hr@1.80 V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|
| LPL2-100 | 2 | 100 | 170 | 72 | 205 | 214 | 5.7 | T6(M6) |
| LPL2-200 | 2 | 200 | 170 | 110 | 328 | 348 | 13.3 | T11(M8) |
| LPL2-200M | 2 | 200 | 90 | 181 | 350 | 365 | 12.4 | T11(M8) |
| LPL2-300 | 2 | 300 | 170 | 150 | 328 | 348 | 18.5 | T11(M8) |
| LPL2-300M | 2 | 300 | 124 | 181 | 350 | 365 | 18 | T11(M8 |
| LPL2-400M | 2 | 400 | 158 | 181 | 350 | 365 | 22.7 | T11(M8) |
| LPL2-400 | 2 | 400 | 210 | 175 | 330 | 350 | 25.5 | T11(M8) |
| LPL2-500M | 2 | 500 | 191 | 181 | 350 | 365 | 28.4 | T11(M8) |
| LPL2-500 | 2 | 500 | 240 | 175 | 330 | 350 | 30 | T11(M8) |
| LPL2-600M | 2 | 600 | 225 | 181 | 350 | 365 | 33.1 | T11(M8) |
| LPL2-600 | 2 | 600 | 300 | 175 | 330 | 350 | 37 | T11(M8) |
| LPL2-800M | 2 | 800 | 303 | 181 | 350 | 365 | 44.5 | T11(M8) |
| LPL2-800 | 2 | 800 | 410 | 175 | 330 | 350 | 50.4 | T11(M8) |
| LPL2-1000M | 2 | 1000 | 370 | 181 | 350 | 365 | 55.8 | T11(M8) |
| LPL2-1000 | 2 | 1000 | 475 | 175 | 328 | 350 | 60 | T11(M8) |
| LPL2-1500M | 2 | 1500 | 355 | 337 | 330 | 350 | 84.6 | T11(M8) |
| LPL2-1500H | 2 | 1500 | 282.5 | 230 | 539 | 549 | 91.5 | T17(M8) |
| LPL2-1600M | 2 | 1600 | 355 | 337 | 330 | 350 | 86.4 | T11(M8) |
| LPL2-2000M | 2 | 2000 | 476 | 337 | 330 | 350 | 112.1 | T11(M8) |
| LPL2-2000H | 2 | 2000 | 358 | 232 | 539 | 549 | 118.5 | T17(M8) |
| LPL2-3000M | 2 | 3000 | 697 | 340 | 330 | 350 | 169.1 | T11(M8) |

# LPG/LPFG SERIES - TOP & FRONT TERMINAL GEL VRLA BATTERIES

## Features & Benefits

- Capacity 17 to 3000Ah
- Virgin lead is used to make plates and paste alloy for long life
- Wider Operating Temperature: -4°F to 140°F(-20°C to 60°C)
- Copper alloy terminal insert for low resistance
- Solid ABS jar & covers (UL94V-0 Flame Retardant available)
- Strong gravity casted grids for long life
- Designed for Critical Telecom Application - 6 years(12V ＜38Ah), 12 years(12V ≥38Ah) and 16 years(2V)
- Temperature Range: -4°F to 140°F(-20°C to 60°C)
- 100% initial capacity
- UL Recognized,NEBSTM 3 GR63,IEC 60896-21-22 and IATA Approved for Air Freight



## Specifications

| Model | Rated Voltage (V) | 20hr@1.80V/cell | 10hr@1.80V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|---|
| LPG12-17 | 12 | 17 | / | 181.5 | 76.5 | 167.5 | 167.5 | 5.8 | T12-I/(M5) |
| LPG12-24 | 12 | 24 | / | 166 | 175 | 125 | 125 | 8.5 | T12-I/(M5) |
| LPG12-31 | 12 | 30 | / | 195 | 130 | 164 | 178 | 10.2 | T5 |
| LPG12-38 | 12 | 38 | 35 | 197 | 165 | 170 | 170 | 12.8 | T6(M6) |
| LPG12-45 | 12 | 45 | 42 | 257 | 132 | 200 | 200 | 15.5 | T6(M6) |
| LPG12-50 | 12 | 50 | 50 | 229 | 138 | 205 | 211 | 16.1 | T6(M6) |
| LPG12-60 | 12 | 60 | 55 | 255 | 170 | 174.5 | 177.5 | 18.5 | T6(M6) |
| LPG12-65 | 12 | 65 | 60 | 325 | 167 | 174 | 174 | 20.5 | T6(M6) |
| LPFG12-70 | 12 | 70 | 65 | 564 | 114 | 187 | 187 | 26.7 | T6(M6) |
| LPG12-70H | 12 | 70 | 70 | 260 | 168 | 208 | 214 | 22.9 | T6(M6) |
| LPG12-85 | 12 | 85 | 80 | 306 | 168 | 208 | 214 | 27.5 | T6(M6) |
| LPFG12-100H | 12 | 95 | 90 | 394 | 110 | 285 | 285 | 35 | T6(M6) |
| LPG12-100 | 12 | 100 | 90 | 330 | 173 | 212 | 218 | 31.2 | T11(M8) |
| LPG12-110 | 12 | 110 | 105 | 408 | 177 | 225 | 225 | 34.5 | T11(M8) |
| LPG12-125 | 12 | 125 | 125 | 345 | 172 | 274 | 280 | 40 | T11(M8) |
| LPFG12-150 | 12 | 138 | 130 | 551 | 110 | 288 | 288 | 47.4 | T6(M6) |
| LPG12-140 | 12 | 140 | 135 | 483 | 170 | 238.5 | 238.5 | 43.8 | T11(M8) |
| LPFG12-180 | 12 | 160 | 150 | 550 | 125 | 281.5 | 281.5 | 52 | T8(M6) |
| LPG12-160 | 12 | 160 | 150 | 522 | 240 | 218 | 224 | 57.5 | T11(M8) |
| LPG12-200 | 12 | 200 | 190 | 522 | 240 | 218 | 224 | 62.3 | T11(M8) |
| LPG12-240 | 12 | 240 | 230 | 522 | 268 | 220 | 226 | 73.3 | T11(M8) |
| LPG2-100 | 2 | / | 100 | 170 | 72 | 205 | 214 | 6 | T6(M6) |
| LPG2-120 | 2 | / | 120 | 170 | 98 | 205 | 214 | 7.3 | T7(M6) |
| LPG2-200 | 2 | / | 200 | 170 | 110 | 328 | 337 | 14.1 | T11(M8) |
| LPG2-300 | 2 | / | 300 | 170 | 150 | 330 | 339 | 19.5 | T11(M8) |
| LPG2-400 | 2 | / | 400 | 210 | 175 | 330 | 339 | 27 | T11(M8) |
| LPG2-500 | 2 | / | 500 | 240 | 175 | 327.5 | 338 | 31.8 | T11(M8) |
| LPG2-600 | 2 | / | 600 | 300 | 175 | 330 | 340 | 40 | T11(M8) |
| LPG2-800 | 2 | / | 800 | 410 | 175 | 330 | 340 | 54 | T11(M8) |
| LPG2-1000 | 2 | / | 1000 | 475 | 175 | 328 | 338 | 64.1 | T11(M8) |
| LPG2-1500 | 2 | / | 1500 | 403 | 354 | 339 | 349 | 102 | T11(M8) |
| LPG2-2000 | 2 | / | 2000 | 490 | 350 | 339 | 349 | 130 | T11(M8) |
| LPG2-3000 | 2 | / | 3000 | 709 | 350 | 337 | 347 | 190 | T11(M8) |



# OPzS SERIES - FLOODED TUBULAR BATTERIES

## Features & Benefits

- Capacity 100 to 3000Ah
- Virgin lead is used to make plates and paste alloy for long life
- Copper alloy terminal insert for low resistance
- Wider Operating Temperature: 5°F to 131°F(-15°C to 55°C)
- Higher cycle life than flat plate batteries
- SAN transparent container, (Optional PC flame retardant material to UL94V-0)
- Small footprint and easily installed on standard or seismic racks
- Designed for Critical Telecom Application up to 20 yr design life
- Standard 1.240 Specific Gravity, with optional 1.215 SG
- 100% initial capacity
- IEC60896-11Certified




Flooded Tubular Battery Solutions

## Specifications

| Model | Rated Voltage (V) | 10hr@1.80V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Dry Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|---|
| 2OPzS100 | 2 | 100 | 103 | 206 | 355 | 410 | 13.2 | 8.1 | T7-B(M10) |
| 3OPzS150 | 2 | 150 | 103 | 206 | 355 | 410 | 15.3 | 10.8 | T7-B(M10) |
| 4OPzS200 | 2 | 200 | 103 | 206 | 355 | 410 | 17.4 | 12.9 | T7-B(M10) |
| 5OPzS250 | 2 | 250 | 124 | 206 | 355 | 410 | 20.4 | 15.4 | T7-B(M10) |
| 6OPzS300 | 2 | 300 | 145 | 206 | 355 | 410 | 23.8 | 17.8 | T7-B(M10) |
| 5OPzS350 | 2 | 350 | 124 | 206 | 471 | 526 | 28.3 | 21.3 | T7-B(M10) |
| 6OPzS420 | 2 | 420 | 145 | 206 | 471 | 526 | 32.7 | 24.5 | T7-B(M10) |
| 7OPzS490 | 2 | 490 | 166 | 206 | 471 | 526 | 38 | 28.2 | T7-B(M10) |
| 6OPzS600 | 2 | 600 | 145 | 206 | 646 | 701 | 45.4 | 33.4 | T7-B(M10) |
| 8OPzS800 | 2 | 800 | 191 | 210 | 646 | 701 | 62.9 | 46.9 | T7-B(M10) |
| 10OPzS1000 | 2 | 1000 | 233 | 210 | 646 | 701 | 77.4 | 57.4 | T7-B(M10) |
| 12OPzS1200 | 2 | 1200 | 275 | 210 | 646 | 701 | 91.7 | 67.7 | T7-B(M10) |
| 12OPzS1500 | 2 | 1500 | 275 | 210 | 796 | 851 | 113.8 | 83.8 | T7-B(M10) |
| 24OPzS3000 | 2 | 3000 | 576 | 212 | 772 | 827 | 224.8 | 164.8 | T7-B(M10) |

# OPzV SERIES -TUBULAR GEL BATTERIES

## Features & Benefits

- Capacity 200 to 3000AH
- Virgin lead is used to make plates and paste alloy for long life
- Copper alloy terminal insert for low resistance
- Wider Operating Temperature: -4°F to 131°F(-20°C to 55°C)
- Higher cycle life than flat plate batteries
- Solid ABS jars & covers (UL94V-0 Flame Retardant available)
- Easy installation vertical or horizontal seismic modular racks
- Designed for Critical Telecom Application up to 20 yr design life
- 100% initial capacity
- UL Recognized,NEBSTM 3 GR63,IEC 60896-21-22 and IATA Approved for Air Freight




## Specifications

| Model | Rated Voltage (V) | 100hr@1.80V/cell | 10hr@1.80V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|---|
| 4OPzV200 | 2 | 260 | 200 | 103 | 206 | 355 | 390 | 18.8 | T7-A(M8) |
| 5OPzV250 | 2 | 325 | 250 | 124 | 206 | 355 | 390 | 22.4 | T7-A(M8) |
| 6OPzV300 | 2 | 390 | 300 | 145 | 206 | 355 | 390 | 26.4 | T7-A(M8) |
| 5OPzV350 | 2 | 491 | 350 | 124 | 206 | 471 | 506 | 28.5 | T7-A(M8) |
| 6OPzV420 | 2 | 590 | 420 | 145 | 206 | 471 | 506 | 33.5 | T7-A(M8) |
| 7OPzV490 | 2 | 688 | 490 | 166 | 206 | 471 | 506 | 38.7 | T7-A(M8) |
| 6OPzV600 | 2 | 842 | 600 | 145 | 206 | 646 | 681 | 46.8 | T7-A(M8) |
| 8OPzV800 | 2 | 1120 | 800 | 191 | 210 | 646 | 681 | 63.5 | T7-A(M8) |
| 10OPzV1000 | 2 | 1400 | 1000 | 233 | 210 | 646 | 681 | 76.5 | T7-A(M8) |
| 12OPzV1200 | 2 | 1680 | 1200 | 275 | 210 | 646 | 681 | 91.2 | T7-A(M8) |
| 12OPzV1500 | 2 | 2110 | 1500 | 275 | 210 | 796 | 831 | 111.5 | T7-A(M8) |
| 16OPzV2000 | 2 | 2810 | 2000 | 399 | 214 | 772 | 807 | 155.1 | T7-A(M8) |
| 20OPzV2500 | 2 | 3510 | 2500 | 487 | 212 | 772 | 807 | 191 | T7-A(M8) |
| 24OPzV3000 | 2 | 4210 | 3000 | 576 | 212 | 772 | 807 | 226.5 | T7-A(M8) |
| 12V9OPzV200 | 12 | 240 | 200 | 521 | 268 | 220 | 226 | 70 | T11(M8) |



# XP SERIES -LONG-LIFE HIGH-RATE AGM BATTERIES

## Features & Benefits

- Long design life classified according to Eurobat.
- Increased consistency by utilizing low tolerance manufacturing technique.
- Reduced grid corrosion and elongated battery life, due to advanced lead tin calcium alloy used.
- Case sizing designs for increased replacement compatibility.
- Unique anti-explosion one-way vent valve design to minimize water loss and increase safety.
- ABS case UL94-HB (UL94-V0 Optional) is used for increased container strength.




## Specifications

| Model | Rated Voltage (V) | W15min @1.67V/cell | 20hr @1.80V/cell | L(mm) | W(mm) | H(mm) | TH(mm) | Gross Weight (kg) | Terminal Type |
|---|---|---|---|---|---|---|---|---|---|
| XP12-100 | 12 | 100 | 27.6 | 164 | 125 | 174 | 174 | 8.40 | T12-I(M5) |
| XP12-150 | 12 | 150 | 33 | 195 | 130 | 164 | 167 | 10.44 | T6-I(M6) |
| XP12-210 | 12 | 210 | 55 | 229 | 138 | 200 | 203 | 17.7 | T6(M6) |
| XP12-300 | 12 | 300 | 78.6 | 260 | 168 | 208 | 211 | 24.2 | T6(M6) |
| XP12-350 | 12 | 350 | 90.7 | 306 | 168 | 208 | 211 | 28.2 | T6(M6) |
| XP12-400 | 12 | 400 | 96 | 325.5 | 170 | 213 | 216 | 31.6 | T8(M6) |
| XP12-490 | 12 | 490 | 136 | 335 | 172 | 275 | 278 | 42.6 | T8(M6) |
| XP12-540 | 12 | 540 | 147 | 335 | 172 | 275 | 278 | 42.40 | T8(M6) |

# RELAY RACKS, CABINETS, & CONVENTIONAL SEISMIC RACKS

## Features & Benefits

- Standard, Seismic and NEBS" Relay Racks Avaialble
- Tiered and Step racks built to your requirements

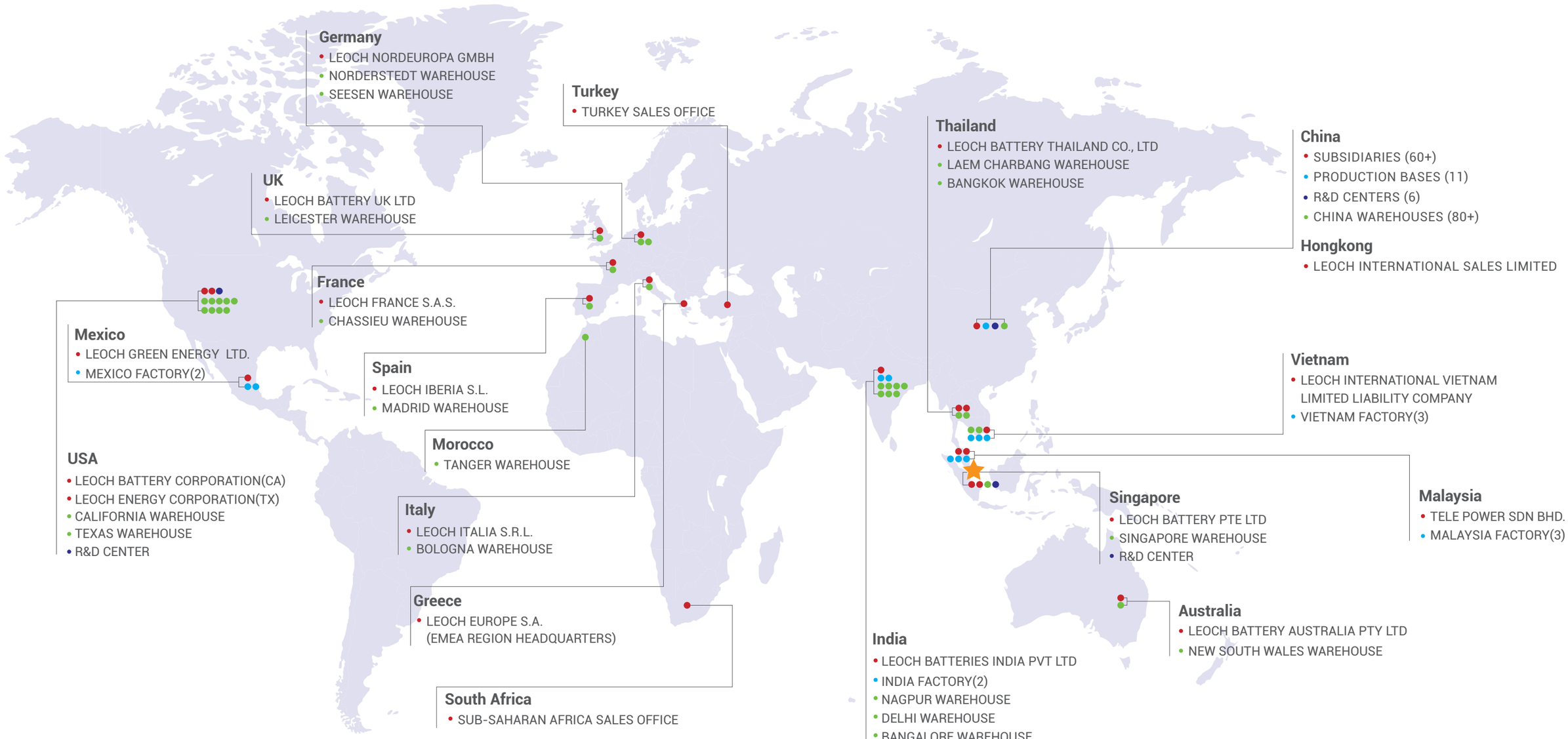


Racks & Cabinets specially designed to fit in tight spaces, for the Critical Telecom industry




Spill Containment and Safety Equipment are always readily available

# Leoch Global Network




**Global Subsidiaries, Production Bases, Warehouses, R&D Centers/Distribution in Worldwide Regions (as of March 2026)**

● Subsidiaries (80+) ● Production Bases (21) ● Warehouses(20+ International | 80+ in China) ● R&D Centers (8)