



# BTX 12-100LS

12V - 100 Ah (High Rate)  
2270W @ 15 minutes



## Electrical specifications

|                         |                    |                    |
|-------------------------|--------------------|--------------------|
| Nominal Voltage         |                    | 12 V               |
| Capacity 25°C to 1,8V/c | 20 hour rate       | 105,0 Ah           |
|                         | 10 hour rate       | 99,0 Ah            |
|                         | 8 hour rate        | 95,2 Ah            |
|                         | 3 hour rate        | 82,5 Ah            |
|                         | 1 hour rate        | 66,3 Ah            |
| Self discharge @ 25°C   | per month          | 2 - 2,5 %          |
| Internal Resistance     | fully charged      | approx 4 mΩ        |
| Maximum current @ 25°C  | charging           | 30 A               |
| Short Circuit @ 25°C    |                    | >1600 A            |
| Charge Voltage @25°C    | Float (-3mV/°C/c)  | 2,27 - 2,29 V/Cell |
| Charge Voltage @25°C    | Cyclic (-5mV/°C/c) | 2,38 - 2,40 V/Cell |

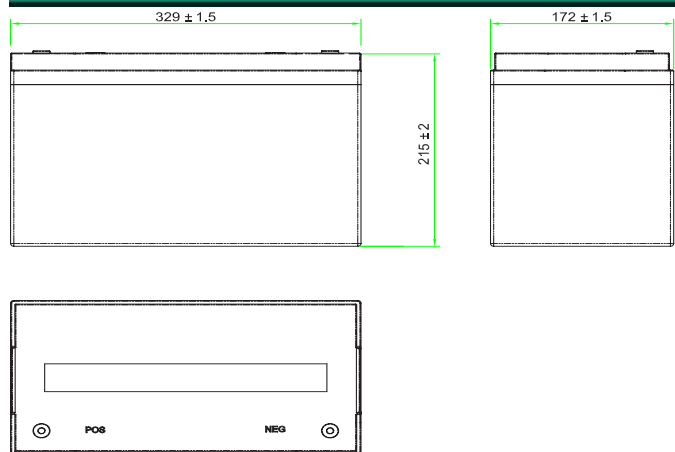
## Other specifications

|                                 |              |                          |
|---------------------------------|--------------|--------------------------|
| Design Floating Life @ 20°C     |              | 12 Years                 |
| Dimensions LxWxH (± 1mm)        |              | 329x172x215 mm           |
|                                 | Total height | 220 mm                   |
| Operating Temperature (storage) |              | -20 to +50 °C            |
| Separator                       |              | Absorbent Glass Mat      |
| Grid alloy                      |              | Calcium / Tin lead alloy |
| Case and cover                  |              | ABS                      |
| Electrolyte                     |              | Sulphuric Acid           |
| Terminal / Length               |              | M6 insert                |
| Optional terminal types         |              | none                     |
| Torque setting                  |              | 8,5-11 Nm                |
| Weight                          |              | 33,0 (±5%) kg            |

## Innovative Features

- Longlife 12 year design
- High Discharge Rate
- Lead-Calcium casted grids
- AGM separators for improved electrolyte distribution
- BTX-LS Capacity range: 17-200Ah
- Designed in conformance with the DIN EN 60896-2:1997 standard
- Extremely low gassing
- Reduced self discharge
- 100% recyclable
- No limitations for transport via road, rail, boat or air
- BTX-LS batteries are maintenance free

## Dimensions



## Constant Amps Discharge - Amps at 25°C

| V/Cell | 5m  | 10m | 15m | 20m | 25m | 30m | 35m | 40m  | 45m  | 50m  | 55m  | 60m  | 90m  | 2h   | 3h   | 4h   | 5h   | 6h   | 7h   | 8h   | 9h   | 10h  | 12h  | 20h  |
|--------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1,80   | 276 | 218 | 181 | 148 | 127 | 114 | 101 | 91,8 | 84,3 | 77,1 | 71,2 | 66,3 | 46,9 | 37,2 | 27,5 | 21,4 | 17,8 | 15,2 | 13,3 | 11,9 | 10,8 | 9,90 | 8,48 | 5,25 |
| 1,75   | 288 | 227 | 188 | 152 | 131 | 117 | 104 | 94,1 | 86,4 | 79,0 | 72,9 | 67,8 | 47,9 | 38,0 | 28,1 | 21,9 | 18,1 | 15,4 | 13,5 | 12,1 | 11,0 | 10,1 | 8,60 | 5,35 |
| 1,70   | 309 | 242 | 199 | 162 | 139 | 124 | 110 | 100  | 91,3 | 83,4 | 76,9 | 71,4 | 50,4 | 39,9 | 29,4 | 22,9 | 19,0 | 16,1 | 14,1 | 12,6 | 11,4 | 10,5 | 8,95 | 5,57 |
| 1,65   | 330 | 256 | 211 | 171 | 147 | 131 | 116 | 105  | 96,2 | 87,8 | 80,8 | 75,1 | 52,9 | 41,9 | 30,8 | 23,9 | 19,8 | 16,9 | 14,7 | 13,1 | 11,9 | 10,9 | 9,29 | 5,78 |
| 1,60   | 351 | 271 | 222 | 180 | 155 | 138 | 123 | 111  | 101  | 92,2 | 84,8 | 78,7 | 55,4 | 43,8 | 32,2 | 25,0 | 20,7 | 17,6 | 15,3 | 13,7 | 12,4 | 11,4 | 9,64 | 6,04 |

## Constant Power Discharge - Watts per Cell at 25°C

| V/Cell | 5m  | 10m | 15m | 20m | 25m | 30m | 35m | 40m | 45m | 50m | 55m | 60m | 90m  | 2h   | 3h   | 4h   | 5h   | 6h   | 7h   | 8h   | 9h   | 10h  | 12h  | 20h  |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1,80   | 520 | 400 | 325 | 268 | 234 | 211 | 188 | 171 | 158 | 145 | 134 | 125 | 89,8 | 72,1 | 54,5 | 43,2 | 36,4 | 31,2 | 27,5 | 24,7 | 22,5 | 20,8 | 18,2 | 10,5 |
| 1,75   | 547 | 418 | 338 | 279 | 243 | 219 | 195 | 177 | 164 | 150 | 138 | 129 | 92,4 | 74,2 | 56,0 | 44,3 | 37,3 | 32,0 | 28,1 | 25,3 | 23,0 | 21,3 | 18,6 | 10,8 |
| 1,70   | 573 | 435 | 351 | 289 | 252 | 227 | 202 | 184 | 169 | 154 | 143 | 133 | 95,0 | 76,3 | 57,5 | 45,4 | 38,2 | 32,7 | 28,8 | 25,8 | 23,5 | 21,7 | 18,9 | 11,2 |
| 1,65   | 600 | 453 | 364 | 300 | 261 | 235 | 209 | 190 | 175 | 159 | 147 | 136 | 97,7 | 78,3 | 59,0 | 46,6 | 39,1 | 33,5 | 29,4 | 26,4 | 24,0 | 22,2 | 19,3 | 11,6 |
| 1,60   | 627 | 470 | 378 | 310 | 270 | 243 | 216 | 196 | 180 | 164 | 151 | 140 | 100  | 80,4 | 60,5 | 47,7 | 40,0 | 34,2 | 30,1 | 27,0 | 24,5 | 22,6 | 19,6 | 12,1 |

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