



BTX 12-80LS

12V - 80 Ah (High Rate)
1720W @ 15 minutes



Electrical specifications

| | | |
|-------------------------|--------------------|--------------------|
| Nominal Voltage | | 12 V |
| Capacity 25°C to 1,8V/c | 20 hour rate | 83,8 Ah |
| | 10 hour rate | 79,0 Ah |
| | 8 hour rate | 74,6 Ah |
| | 3 hour rate | 62,4 Ah |
| | 1 hour rate | 52,3 Ah |
| Self discharge @ 25°C | per month | 2 - 2,5 % |
| Internal Resistance | fully charged | approx 5 mΩ |
| Maximum current @ 25°C | charging | 24 A |
| Short Circuit @ 25°C | | >1350 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 |

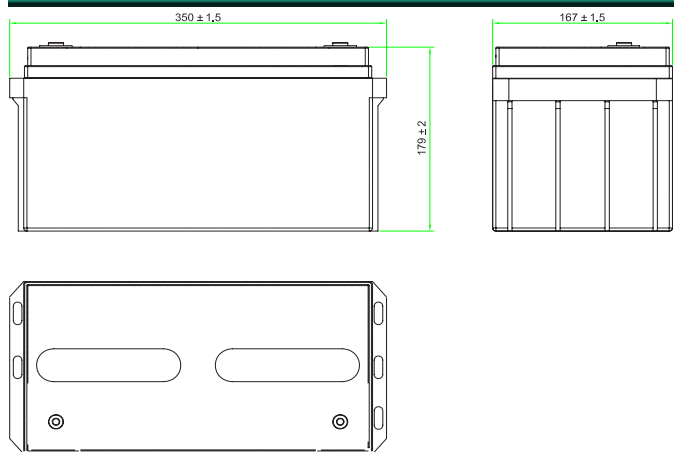
Other specifications

| | | |
|---------------------------------|--------------|--------------------------|
| Design Floating Life @ 20°C | | 12 Years |
| Dimensions LxWxH (± 1mm) | | 350x167x179 mm |
| | Total height | 184 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 | | 26,2 (±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 | 212 | 168 | 136 | 111 | 96,0 | 86,0 | 76,1 | 68,8 | 63,0 | 58,7 | 55,2 | 52,3 | 36,6 | 28,7 | 20,8 | 16,3 | 13,6 | 11,7 | 10,3 | 9,32 | 8,53 | 7,90 | 6,77 | 4,19 |
| 1,75 | 221 | 174 | 141 | 115 | 98,9 | 88,3 | 78,1 | 70,5 | 64,6 | 60,1 | 56,5 | 53,5 | 37,4 | 29,3 | 21,3 | 16,6 | 13,8 | 11,9 | 10,5 | 9,48 | 8,67 | 8,03 | 6,87 | 4,26 |
| 1,70 | 237 | 186 | 150 | 122 | 105 | 93,7 | 82,8 | 74,6 | 68,2 | 63,5 | 59,6 | 56,4 | 39,3 | 30,8 | 22,3 | 17,4 | 14,5 | 12,4 | 11,0 | 9,90 | 9,05 | 8,37 | 7,14 | 4,44 |
| 1,65 | 253 | 197 | 159 | 129 | 111 | 99,0 | 87,4 | 78,7 | 71,9 | 66,8 | 62,7 | 59,2 | 41,3 | 32,3 | 23,3 | 18,2 | 15,1 | 13,0 | 11,5 | 10,3 | 9,43 | 8,71 | 7,42 | 4,62 |
| 1,60 | 269 | 208 | 167 | 136 | 117 | 104 | 92,0 | 82,8 | 75,6 | 70,2 | 65,8 | 62,1 | 43,2 | 33,8 | 24,4 | 19,0 | 15,8 | 13,5 | 11,9 | 10,7 | 9,80 | 9,06 | 7,69 | 4,80 |

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 | 413 | 315 | 247 | 201 | 173 | 155 | 139 | 127 | 117 | 108 | 101 | 94,5 | 67,9 | 54,5 | 41,2 | 33,0 | 28,0 | 24,2 | 21,5 | 19,5 | 18,0 | 16,7 | 14,4 | 8,42 |
| 1,75 | 434 | 329 | 257 | 209 | 180 | 161 | 144 | 131 | 121 | 112 | 104 | 97,4 | 69,9 | 56,1 | 42,4 | 33,8 | 28,7 | 24,8 | 22,0 | 20,0 | 18,3 | 17,1 | 14,7 | 8,55 |
| 1,70 | 456 | 343 | 267 | 217 | 187 | 167 | 149 | 135 | 125 | 115 | 107 | 100 | 71,9 | 57,7 | 43,5 | 34,7 | 29,4 | 25,4 | 22,5 | 20,4 | 18,7 | 17,4 | 15,0 | 8,92 |
| 1,65 | 477 | 356 | 277 | 225 | 193 | 172 | 154 | 140 | 129 | 119 | 110 | 103 | 74,0 | 59,3 | 44,7 | 35,5 | 30,1 | 26,0 | 23,0 | 20,8 | 19,1 | 17,8 | 15,2 | 9,28 |
| 1,60 | 498 | 370 | 287 | 233 | 200 | 178 | 159 | 144 | 133 | 122 | 114 | 106 | 76,0 | 60,9 | 45,8 | 36,4 | 30,8 | 26,5 | 23,5 | 21,3 | 19,5 | 18,1 | 15,5 | 9,65 |

Revision: 201603-1

