



# ESL 100-FTHT

## 12V - 100 Ah



### Electrical Specifications @ 25°C

|                         |               |                |
|-------------------------|---------------|----------------|
| Nominal Voltage         |               | 12 V           |
| Capacity                | C10 / 1,80V   | 100 Ah         |
|                         | C5 / 1,75V    | 86,0 Ah        |
|                         | C3 / 1,70V    | 79,2 Ah        |
|                         | C1 / 1,60V    | 63,5 Ah        |
| Self Discharge @20°C    | per Month     | ≈ 3 %          |
| Resistance              | fully charged | ≈ 6,3 mΩ       |
| Standby use             | +/- 1%        | 2,20-2,30 V    |
| Temp. correction factor | +/- 1%        | -20 mV / °C /c |
| Cyclic use              | +/- 1%        | 2,40-2,45 V    |
| Max. charging current   | +/- 1%        | 30 A           |
| Temp. correction factor |               | -30 mV / °C /c |

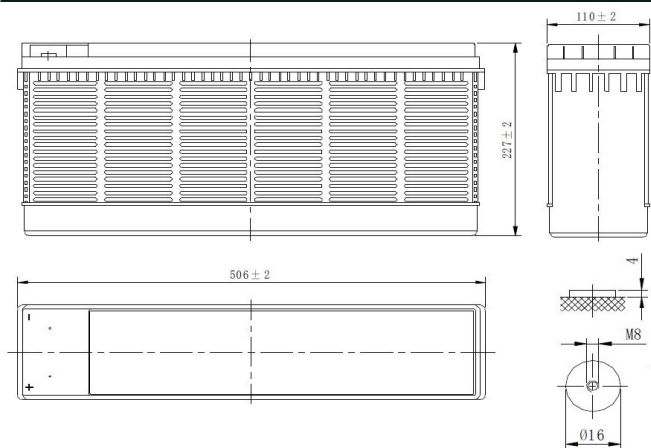
### Other Specifications @ 25°C

|                         |                   |
|-------------------------|-------------------|
| Design Life @35°C       | 12 Years          |
| Dimensions (LxWxH1) ± 3 | 506x110x227 mm    |
| Total Height (H2)       | 227 mm            |
| Operating temp.         | -30 ~ +80 °C      |
| Charge Operation temp   | -10 ~ 70 °C       |
| Container               | ABS               |
| Separator               | Fiberglass        |
| Electrolyte             | Acid              |
| Terminal / Length       | M8 / 16 bold / mm |
| Optional terminal types | -                 |
| Torque setting          | ± 12.4 Nm         |
| Weight (±2%)            | 32,5 kg           |

### Innovative Features

- Wide operating temperature range : -30 °C to +80 °C
- Patented anti-corrosion grid technology
- Special Battery separator technology
- Special Containers & lids with thermostability
- Special structure design with compression resistance and impact resistance
- Save 50% cost of air conditioners power consumption
- 100% air conditioner maintenance saving
- 30% CO2 gas emission reduce;
- 100% condensing agent saving, no condensing agent pollution

### Dimensions / Pole settings



### Constant Current Discharge - Ampere @ 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   | 196 | 153 | 132 | 115 | 102 | 93,0 | 83,8 | 76,2 | 68,0 | 62,4 | 59,0 | 55,1 | 40,5 | 32,6 | 24,6 | 19,7 | 16,8 | 14,6 | 13,1 | 11,9 | 11,0 | 10,0 | 8,75 | 5,87 |
| 1,75   | 216 | 169 | 143 | 124 | 109 | 97,0 | 87,4 | 80,2 | 71,6 | 65,7 | 61,5 | 57,5 | 42,3 | 34,0 | 25,7 | 20,6 | 17,2 | 15,0 | 13,4 | 12,0 | 11,0 | 10,0 | 8,73 | 6,01 |
| 1,70   | 238 | 186 | 154 | 131 | 114 | 102  | 91,9 | 82,8 | 73,9 | 67,8 | 63,7 | 59,5 | 43,8 | 35,2 | 26,4 | 21,1 | 17,8 | 15,5 | 14,0 | 12,0 | 11,0 | 10,0 | 8,99 | 6,22 |
| 1,65   | 257 | 201 | 165 | 138 | 119 | 106  | 95,5 | 86,0 | 76,4 | 72,0 | 65,8 | 61,5 | 45,2 | 36,4 | 27,1 | 21,7 | 18,1 | 15,7 | 14,1 | 13,0 | 11,0 | 10,1 | 9,05 | 6,33 |
| 1,60   | 279 | 218 | 186 | 151 | 127 | 110  | 99,1 | 88,3 | 78,8 | 72,3 | 67,9 | 63,5 | 46,7 | 37,6 | 27,8 | 22,2 | 18,5 | 16,1 | 14,5 | 13,1 | 12,1 | 10,1 | 9,64 | 6,47 |

### Constant Power Discharge - Watt @ 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   | 370 | 294 | 254 | 224 | 197 | 170 | 153 | 141 | 128 | 119 | 110 | 103 | 78,3 | 62,3 | 47,8 | 40,2 | 34,6 | 31,1 | 28,4 | 26,0 | 23,9 | 22,1 | 19,4 | 14,2 |
| 1,75   | 398 | 316 | 270 | 238 | 211 | 182 | 164 | 147 | 134 | 125 | 118 | 110 | 80,3 | 63,1 | 49,1 | 41,2 | 35,5 | 32,0 | 29,1 | 26,6 | 24,5 | 22,7 | 19,9 | 14,6 |
| 1,70   | 425 | 337 | 286 | 252 | 226 | 195 | 176 | 154 | 140 | 130 | 123 | 115 | 84,0 | 66,4 | 50,1 | 42,1 | 35,8 | 32,2 | 29,4 | 26,9 | 24,7 | 22,9 | 20,0 | 14,7 |
| 1,65   | 451 | 358 | 303 | 267 | 231 | 199 | 179 | 158 | 144 | 134 | 125 | 117 | 85,4 | 68,1 | 51,2 | 43,0 | 36,1 | 32,5 | 29,6 | 27,1 | 24,9 | 23,1 | 20,2 | 14,8 |
| 1,60   | 479 | 380 | 319 | 281 | 239 | 206 | 185 | 165 | 150 | 140 | 129 | 121 | 88,3 | 70,1 | 52,3 | 43,9 | 36,5 | 32,9 | 29,9 | 27,4 | 25,2 | 23,4 | 20,4 | 15,0 |

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