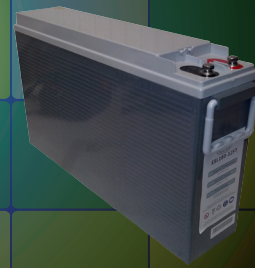




# ESL 180 - 12 FT

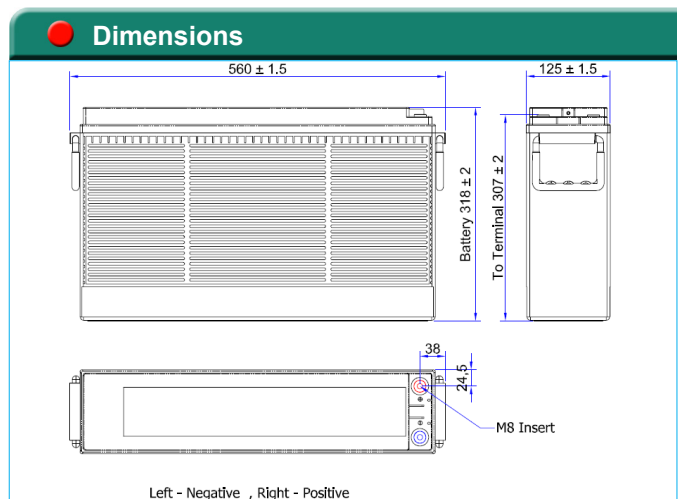
## 12V - 180 Ah



| Electrical specifications |                    |             |           |
|---------------------------|--------------------|-------------|-----------|
| Nominal Voltage           |                    |             | 12 V      |
| Capacity 25°C to 1,8V/c   | 20 hour rate       |             | 192,0 Ah  |
|                           | 10 hour rate       |             | 178,0 Ah  |
|                           | 8 hour rate        |             | 170,4 Ah  |
|                           | 3 hour rate        |             | 132,9 Ah  |
|                           | 1 hour rate        |             | 109,0 Ah  |
| Self discharge @ 25°C     | per month          |             | 2,5 - 3 % |
| Internal Resistance       | fully charged      |             | 4,44 mΩ   |
| Impedance                 | fully charged      |             | 1350 S    |
| Maximum current           | charging           |             | 20 A      |
| Charge Voltage @25°C      | Float (-3mV/°C/c)  | 2,25 - 2,29 | V/Cell    |
|                           | Cyclic (-5mV/°C/c) | 2,37 - 2,40 | V/Cell    |

- | Innovative Features |   |
|---------------------|---|
| •                   | Completely maintenance free, sealed construction eliminates the need for adding water |
| •                   | Fully tank formed plates  |
| •                   | Analytical grade electrolyte  |
| •                   | Spill proof / leak proof  |
| •                   | Valve regulated Max internal pressure 2,5 psi   |
| •                   | Multi-position usage  |
| •                   | ABS Case and cover  |
| •                   | Low self discharge  |
| •                   | FAA and IATA approved as non-hazardous  |
| •                   | Built to comply with IEC 8962, DIN 43534, BS 6290 Pt4, Eurobat                        |

| Other specifications            |                          |
|---------------------------------|--------------------------|
| Design Floating Life @20°C      | 12 Years                 |
| Dimensions LxWxH (± 2mm)        | 560x125x318 mm           |
| Total height                    | 318 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               | M8 / 20mm insert         |
| Optional terminal types         | none                     |
| Torque setting                  | 18 Nm                    |
| Weight                          | 53,5 (±5%) kg            |



| Constant Amps discharge - Amps at 25°C |      |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| V/Cell                                 | 5min | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 60min | 90min | 2h   | 3h   | 4h   | 5h   | 6h   | 7h   | 8h   | 9h   | 10h  | 12h  | 20h  |
| 1,80                                   | 381  | 271   | 215   | 204   | 177   | 166   | 151   | 139   | 129   | 121   | 114   | 109   | 72,8  | 58,1 | 44,3 | 35,3 | 30,5 | 26,5 | 23,7 | 21,3 | 19,5 | 17,8 | 15,5 | 9,60 |
| 1,75                                   | 421  | 392   | 231   | 212   | 184   | 170   | 154   | 143   | 132   | 124   | 117   | 111   | 74,0  | 59,5 | 45,0 | 35,5 | 30,6 | 26,6 | 23,7 | 21,3 | 19,5 | 17,9 | 15,5 | 9,60 |
| 1,70                                   | 461  | 313   | 246   | 219   | 190   | 174   | 158   | 146   | 135   | 127   | 120   | 114   | 76,0  | 61,0 | 45,5 | 36,0 | 30,8 | 26,7 | 23,8 | 21,4 | 19,6 | 17,9 | 15,6 | 9,70 |
| 1,65                                   | 501  | 334   | 262   | 226   | 196   | 178   | 162   | 150   | 139   | 130   | 123   | 116   | 78,0  | 62,4 | 46,0 | 36,5 | 31,0 | 26,8 | 23,8 | 21,5 | 19,6 | 18,0 | 15,6 | 9,70 |
| 1,60                                   | 541  | 355   | 277   | 233   | 203   | 182   | 166   | 153   | 142   | 133   | 126   | 119   | 80,0  | 63,9 | 46,5 | 37,1 | 31,2 | 27,0 | 23,9 | 21,6 | 19,7 | 18,1 | 15,7 | 9,80 |

| Constant Power Discharge - Watts/Cell at 25°C |      |       |       |       |       |       |       |       |       |       |       |       |       |     |      |      |      |      |      |      |      |      |      |      |
|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|------|------|------|------|------|------|------|------|------|
| V/Cell  | 5min | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 60min | 90min | 2h  | 3h   | 4h   | 5h   | 6h   | 7h   | 8h   | 9h   | 10h  | 12h  | 20h  |
| 1,80  | 621  | 466   | 389   | 374   | 331   | 313   | 285   | 262   | 246   | 230   | 217   | 206   | 138   | 110 | 85,0 | 67,9 | 59,9 | 52,2 | 46,7 | 42,3 | 38,5 | 35,5 | 30,9 | 18,2 |
| 1,75  | 697  | 578   | 418   | 397   | 343   | 321   | 292   | 269   | 252   | 236   | 233   | 211   | 141   | 113 | 86,3 | 68,6 | 60,2 | 53,5 | 46,8 | 42,4 | 38,6 | 35,6 | 31,0 | 18,4 |
| 1,70  | 773  | 582   | 446   | 400   | 355   | 329   | 299   | 276   | 258   | 242   | 238   | 216   | 145   | 116 | 87,3 | 69,5 | 60,5 | 53,7 | 47,0 | 42,5 | 38,7 | 35,6 | 31,1 | 18,6 |
| 1,65  | 849  | 596   | 474   | 413   | 367   | 336   | 306   | 282   | 264   | 247   | 234   | 221   | 148   | 119 | 88,3 | 70,4 | 60,8 | 53,0 | 47,1 | 42,6 | 38,8 | 35,7 | 31,1 | 18,8 |
| 1,60  | 925  | 610   | 502   | 426   | 380   | 344   | 313   | 289   | 270   | 253   | 239   | 227   | 152   | 121 | 89,3 | 71,3 | 61,1 | 53,2 | 47,2 | 42,7 | 38,9 | 35,8 | 31,2 | 19,0 |

Revision: 2016012-1

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