



# ESL 120-12

## 12V - 120 Ah



### Electrical specifications

|                                |              |                    |
|--------------------------------|--------------|--------------------|
| Nominal Voltage                | 12 V         |                    |
| Capacity 20°C to 1,7V          | 20 hour rate | 138,2 Ah           |
|                                | 10 hour rate | 129,0 Ah           |
|                                | 8 hour rate  | 126,4 Ah           |
|                                | 3 hour rate  | 107,1 Ah           |
|                                | 1 hour rate  | 83,9 Ah            |
| Self discharge @ 20°C          | per month    | 2-2.5 %            |
| Resistance <sup>(Ohm)</sup>    | 3,46 mΩ      |                    |
| Impedance <sup>(Siemens)</sup> | 1480 S       |                    |
| Short Circuit @ 20°C           | 3300 A       |                    |
| Charge Voltage @20-25°C        | Standby      | 2,27 - 2,29 V/Cell |
|                                | Cyclic       | 2,35 - 2,40 V/Cell |

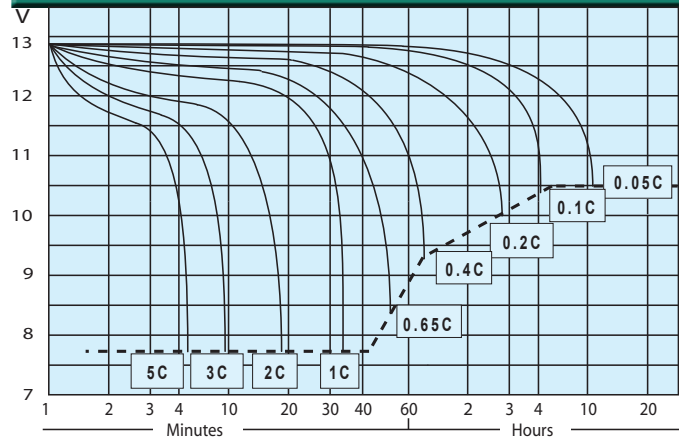
### Other specifications

|                         |                          |  |
|-------------------------|--------------------------|--|
| Design Life             | 12 Years                 |  |
| Dimensions LxWxH        | 408x176x204 mm           |  |
| Total height            | 223 mm                   |  |
| Operating Temperature   | -20 to +50 °C            |  |
| Separator               | Absorbant Glass Mat      |  |
| Grid alloy              | Calcium / Tin lead alloy |  |
| Case and cover          | ABS - V0                 |  |
| Electrolyte             | Sulphuric Acid           |  |
| Terminal / Length       | M6 / 20mm insert         |  |
| Optional terminal types | Cu/Lead Flag             |  |
| Torque setting          | 5-7 Nm                   |  |
| Weight                  | 36,0 Kg                  |  |

### 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 - V0
- Low self discharge
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 8962, DIN 43534, BS 6290 Pt4, Eurobat

### Discharge Curve @ 20°C - Rate versus Time



### Constant Amps discharge - Amps at 20°C

| V/Cell | 5 min | 10 min | 15 min | 20 min | 25 min | 30 min | 35 min | 40 min | 45 min | 60 min | 90 min | 2 hr | 3 hr | 4 hr | 5 hr | 6 hr | 7 hr | 8 hr | 10 hr | 12 hr | 20 hr |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|-------|-------|-------|
| 1,85   | 328   | 228    | 189    | 159    | 137    | 121    | 109    | 98,8   | 90,5   | 72,2   | 52,6   | 41,9 | 30,8 | 24,6 | 20,3 | 17,5 | 15,3 | 13,6 | 11,1  | 9,47  | 5,95  |
| 1,80   | 350   | 244    | 202    | 170    | 147    | 129    | 116    | 106    | 96,7   | 77,1   | 56,1   | 44,8 | 32,9 | 26,3 | 21,7 | 18,7 | 16,3 | 14,5 | 11,9  | 10,1  | 6,35  |
| 1,75   | 372   | 260    | 215    | 181    | 156    | 138    | 124    | 112    | 103    | 82,1   | 59,7   | 47,7 | 35,0 | 28,0 | 23,1 | 19,9 | 17,4 | 15,4 | 12,7  | 10,8  | 6,76  |
| 1,70   | 381   | 265    | 220    | 185    | 159    | 141    | 127    | 115    | 105    | 83,9   | 61,0   | 48,7 | 35,7 | 28,6 | 23,6 | 20,3 | 17,8 | 15,8 | 12,9  | 11,0  | 6,91  |
| 1,65   | 385   | 269    | 223    | 187    | 161    | 142    | 128    | 116    | 106    | 84,9   | 61,8   | 49,3 | 36,2 | 28,9 | -    | -    | -    | -    | -     | -     | -     |
| 1,60   | 389   | 271    | 225    | 189    | 163    | 144    | 129    | 117    | 107    | 85,8   | 62,4   | 49,8 | 36,5 | 29,2 | -    | -    | -    | -    | -     | -     | -     |

### Constant Power Discharge - Watts per Cell at 20°C

| V/Cell | 5 min | 10 min | 15 min | 20 min | 25 min | 30 min | 35 min | 40 min | 45 min | 60 min | 90 min | 2 hr | 3 hr | 4 hr | 5 hr | 6 hr | 7 hr | 8 hr | 10 hr | 12 hr | 20 hr |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|-------|-------|-------|
| 1,85   | 865   | 486    | 354    | 287    | 248    | 220    | 200    | 184    | 170    | 137    | 101    | 80,1 | 58,1 | 45,9 | 38,4 | 32,7 | 28,5 | 25,3 | 20,8  | 17,7  | 11,2  |
| 1,80   | 924   | 519    | 379    | 306    | 265    | 235    | 214    | 196    | 182    | 146    | 108    | 85,5 | 62,0 | 49,0 | 41,0 | 34,9 | 30,5 | 27,0 | 22,2  | 18,9  | 12,0  |
| 1,75   | 982   | 552    | 403    | 326    | 282    | 250    | 228    | 209    | 193    | 156    | 115    | 91,0 | 66,0 | 52,2 | 43,6 | 37,2 | 32,4 | 28,8 | 23,6  | 20,1  | 12,7  |
| 1,70   | 1004  | 565    | 412    | 333    | 288    | 256    | 233    | 213    | 198    | 159    | 118    | 93,0 | 67,4 | 53,3 | 44,6 | 38,0 | 33,1 | 29,4 | 24,1  | 20,5  | 13,0  |
| 1,65   | 1017  | 572    | 417    | 337    | 292    | 259    | 236    | 216    | 200    | 161    | 119    | 94,2 | 68,3 | 54,0 | -    | -    | -    | -    | -     | -     | -     |
| 1,60   | 1027  | 577    | 421    | 340    | 295    | 261    | 238    | 218    | 202    | 163    | 120    | 95,1 | 68,9 | 54,5 | -    | -    | -    | -    | -     | -     | -     |

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Your Wing Dealer :



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