



# ESH 5,2-12

## 12V - 5,2 Ah



### Electrical specifications

|                         |                    |                    |
|-------------------------|--------------------|--------------------|
| Nominal Voltage         | 12 V               |                    |
| Capacity 25°C to 1,8V/c | 20 hour rate       | 5,2 Ah             |
|                         | 10 hour rate       | 4,7 Ah             |
|                         | 8 hour rate        | 4,4 Ah             |
|                         | 3 hour rate        | 3,7 Ah             |
|                         | 1 hour rate        | 2,8 Ah             |
| Self discharge @ 25°C   | per month          | 2,5 - 3 %          |
| Internal Resistance     | fully charged      | approx 22 mΩ       |
| Maximum current @ 25°C  | charging           | 1,5 A              |
|                         | discharging (5sec) | 75 A               |
| Charge Voltage @25°C    | Float (-18mV/°C)   | 2,27 - 2,29 V/Cell |
| Charge Voltage @25°C    | Cyclic (-30mV/°C)  | 2,41 - 2,48 V/Cell |

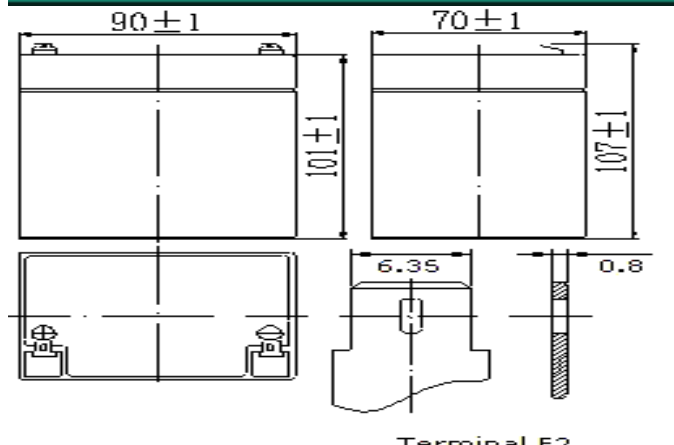
### Other specifications

|                                 |                          |  |
|---------------------------------|--------------------------|--|
| Design Floating Life @ 20°C     | 3-5 Years                |  |
| Dimensions LxWxH (± 1mm)        | 90x70x101 mm             |  |
|                                 | Total height             |  |
| 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               | .250 (F2) faston         |  |
| Optional terminal types         | none                     |  |
| Torque setting                  | none Nm                  |  |
| Weight                          | 1,8 (±5%) 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 optional)
- Low self discharge
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 8962, DIN 43534, BS 6290 Pt4, Eurobat

### 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   | 17,4 | 10,7 | 8,60 | 6,85 | 5,45 | 4,90 | 4,36 | 3,93 | 3,51 | 3,32 | 3,13 | 2,85 | 2,13 | 1,75 | 1,24 | 0,98 | 0,85 | 0,72 | 0,62 | 0,55 | 0,50 | 0,47 | 0,40 | 0,26 |
| 1,75   | 18,5 | 11,3 | 9,05 | 7,15 | 5,75 | 5,10 | 4,52 | 4,08 | 3,65 | 3,44 | 3,16 | 2,92 | 2,20 | 1,78 | 1,28 | 1,01 | 0,88 | 0,74 | 0,64 | 0,57 | 0,52 | 0,48 | 0,41 | 0,26 |
| 1,70   | 19,3 | 11,8 | 9,40 | 7,45 | 5,95 | 5,20 | 4,72 | 4,19 | 3,74 | 3,51 | 3,24 | 2,99 | 2,25 | 1,80 | 1,29 | 1,02 | 0,89 | 0,74 | 0,64 | 0,58 | 0,52 | 0,48 | 0,41 | 0,26 |
| 1,65   | 20,1 | 12,1 | 9,60 | 7,60 | 6,20 | 5,30 | 4,78 | 4,32 | 3,81 | 3,63 | 3,35 | 3,03 | 2,30 | 1,84 | 1,29 | 1,02 | 0,89 | 0,75 | 0,65 | 0,58 | 0,53 | 0,48 | 0,41 | 0,26 |
| 1,60   | 20,7 | 12,7 | 10,0 | 7,95 | 6,35 | 5,50 | 4,88 | 4,41 | 3,94 | 3,68 | 3,40 | 3,11 | 2,34 | 1,87 | 1,30 | 1,03 | 0,90 | 0,75 | 0,66 | 0,58 | 0,53 | 0,48 | 0,42 | 0,26 |

### Constant Power Discharge - Watts per Block 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   | 186 | 115 | 94,0 | 75,5 | 60,0 | 54,0 | 48,1 | 43,5 | 38,9 | 37,0 | 35,1 | 32,1 | 24,1 | 19,9 | 14,3 | 11,4 | 9,90 | 8,35 | 7,30 | 6,50 | 5,95 | 5,55 | 4,81 | 3,01 |
| 1,75   | 197 | 122 | 98,5 | 78,5 | 63,0 | 56,0 | 49,8 | 45,0 | 40,3 | 38,2 | 35,3 | 32,8 | 24,9 | 20,2 | 14,7 | 11,7 | 10,2 | 8,55 | 7,40 | 6,70 | 6,10 | 5,65 | 4,90 | 3,07 |
| 1,70   | 206 | 127 | 102  | 81,5 | 65,0 | 57,0 | 52,0 | 46,1 | 41,2 | 38,9 | 36,1 | 33,5 | 25,3 | 20,4 | 14,7 | 11,7 | 10,3 | 8,60 | 7,50 | 6,70 | 6,15 | 5,65 | 4,92 | 3,08 |
| 1,65   | 213 | 130 | 104  | 83,0 | 67,5 | 58,0 | 52,5 | 47,4 | 41,8 | 40,1 | 37,2 | 33,9 | 25,9 | 20,7 | 14,7 | 11,7 | 10,3 | 8,65 | 7,50 | 6,75 | 6,20 | 5,70 | 4,91 | 3,09 |
| 1,60   | 219 | 135 | 108  | 86,5 | 69,0 | 60,0 | 53,0 | 48,2 | 43,2 | 40,6 | 37,7 | 34,6 | 26,2 | 21,0 | 14,8 | 11,8 | 10,3 | 8,65 | 7,60 | 6,75 | 6,20 | 5,70 | 4,94 | 3,09 |

Revision: 201509-1

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