



WING ES 18-12

WETAC ENERGY SOLUTIONS



Designlife

6-9 Years

WING BATTERIES - ES 18-12

Stationary, maintenance-free, sealed lead battery 12V – 18Ah

WING ES Batteries utilize superior cast grid plates with electrolyte absorbed in a glass fiber separator (AGM). The features of the ES range make them extremely versatile and adaptable for use in the fields of security lighting, UPS systems, IT / data centers, telecommunications applications etc.

Electrical specifications

| | |
|---|---------------|
| Nominal Voltage: | 12 V |
| Capacity 25°C to 1.8V/C (20 h): | 18,0 Ah |
| Capacity 25°C to 1.8V/C (10 h): | 16,4 Ah |
| Capacity 25°C to 1.8V/C (8 h): | 15,4 Ah |
| Capacity 25°C to 1.8V/C (3 h): | 13,1 Ah |
| Capacity 25°C to 1.8V/C (1 h): | 10,7 Ah |
| Self discharge @ 25°C per month: | ≈ 2,5 - 3% |
| Internal resistance fully charged: | ≈ 16 mΩ |
| Max. current (charging) @ 25°C: | 5,4 A |
| Max. current (discharging) @ 25°C (5 Sec.): | 270 A |
| Charge Voltage (Float) @ 25°C (-18mV/°C): | 2,27-2,29 V/C |
| Charge Voltage (Cyclic) @ 25°C (-30mV/°C): | 2,41-2,48 V/C |

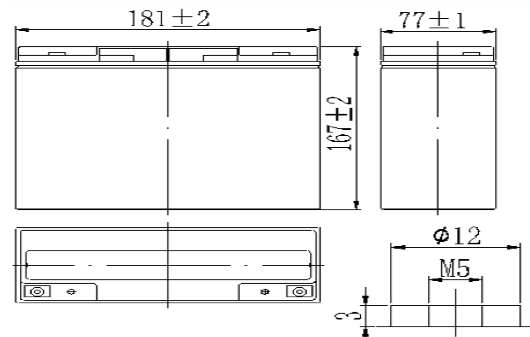
Other specifications

| | |
|---------------------------|--------------------------|
| Float Design Life @ 25°C: | 6-9 Years |
| Dimensions LxWxH (mm): | 187x77x167 |
| Total Height (mm): | 167 mm |
| Operating Temperature: | -20 to 50°C |
| Separator: | AGM |
| Grid alloy: | Calcium / Tin lead alloy |
| Case and lid material: | ABS |
| Electrolyte: | Sulphuric Acid |
| Terminal / Lenght: | M5 insert |
| Optional terminal types: | none |
| Torque setting: | 4-5 Nm |
| Weight: | 5,3 kg (±5%) |

Design features

- Life time 6-9 Years
- High rate discharge optimised
- Advanced Lead-calcium cast grid design
- Enhanced AGM separators for improved electrolyte distribution
- Capacity range: 1,2 Ah to 65 Ah
- ES 12V Batteries with VdS standard: 1,2 | 2,3 | 3,2 | 7 | 12 | 18 | 26 | 40 | 65 Ah
- Designed to comply with standards: DIN EN 60896-2, DIN 43534, BS 6290, IEC 60896-21/22, IEC 61056
- Extremely low gassing
- Low self discharge
- FAA and IATA approved non-hazardous

Dimensions



Performance – Current(A) @ 25°C

| V/C | 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 | 53,8 | 36,3 | 29,4 | 22,1 | 19,1 | 17,0 | 15,4 | 14,2 | 12,9 | 12,0 | 11,2 | 10,7 | 7,96 | 6,05 | 4,37 | 3,49 | 2,97 | 2,35 | 2,11 | 1,92 | 1,77 | 1,64 | 1,44 | 0,90 |
| 1,75 | 57,0 | 38,4 | 31,1 | 23,5 | 20,3 | 17,7 | 16,1 | 14,7 | 13,5 | 12,5 | 11,7 | 11,0 | 8,17 | 6,21 | 4,50 | 3,60 | 3,06 | 2,42 | 2,18 | 1,98 | 1,82 | 1,67 | 1,47 | 0,90 |
| 1,70 | 59,7 | 40,2 | 32,1 | 24,1 | 20,9 | 18,1 | 16,4 | 15,1 | 13,8 | 12,8 | 11,9 | 11,2 | 8,31 | 6,30 | 4,53 | 3,63 | 3,08 | 2,44 | 2,20 | 1,99 | 1,83 | 1,68 | 1,48 | 0,90 |
| 1,65 | 62,0 | 41,9 | 33,4 | 25,0 | 21,8 | 18,7 | 17,0 | 15,6 | 14,2 | 13,2 | 12,3 | 11,5 | 8,48 | 6,36 | 4,56 | 3,65 | 3,10 | 2,46 | 2,21 | 2,01 | 1,85 | 1,69 | 1,49 | 0,91 |
| 1,60 | 64,1 | 43,2 | 34,2 | 25,9 | 22,3 | 19,1 | 17,4 | 15,9 | 14,5 | 13,5 | 12,6 | 11,7 | 8,59 | 6,39 | 4,59 | 3,67 | 3,12 | 2,47 | 2,22 | 2,02 | 1,86 | 1,70 | 1,49 | 0,91 |

Performance – Watt per Cell (W/C) @ 25°C

| V/C | 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 | 99,0 | 68,2 | 55,8 | 41,8 | 36,6 | 32,5 | 29,5 | 27,0 | 25,1 | 23,5 | 21,6 | 20,6 | 15,4 | 11,8 | 8,65 | 6,93 | 5,90 | 4,67 | 4,18 | 3,83 | 3,55 | 3,28 | 2,03 | 1,77 |
| 1,75 | 105 | 72,3 | 59,0 | 44,7 | 38,8 | 33,8 | 30,6 | 28,1 | 26,1 | 24,3 | 22,5 | 21,1 | 15,8 | 12,1 | 8,92 | 7,15 | 6,08 | 4,82 | 4,33 | 3,93 | 3,65 | 3,35 | 2,08 | 1,80 |
| 1,70 | 109 | 75,5 | 61,0 | 45,8 | 40,0 | 34,6 | 31,5 | 28,8 | 26,8 | 25,0 | 23,1 | 21,6 | 16,1 | 12,2 | 8,97 | 7,20 | 6,13 | 4,85 | 4,37 | 3,98 | 3,67 | 3,37 | 2,07 | 1,82 |
| 1,65 | 114 | 78,8 | 63,5 | 47,5 | 41,8 | 35,6 | 32,3 | 29,6 | 27,6 | 25,8 | 23,8 | 22,1 | 16,4 | 12,4 | 9,03 | 7,25 | 6,17 | 4,88 | 4,40 | 4,02 | 3,72 | 3,38 | 2,08 | 1,82 |
| 1,60 | 118 | 81,2 | 65,0 | 49,2 | 42,8 | 36,5 | 33,1 | 30,3 | 28,1 | 26,3 | 24,1 | 22,5 | 16,6 | 12,4 | 9,08 | 7,28 | 6,22 | 4,92 | 4,43 | 4,03 | 3,73 | 3,40 | 2,08 | 1,82 |



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