

# RUNNING BULL AGM

By 2017, over 70 per cent of all new vehicles will be fitted with an engine start/stop function. In general, two differing starter battery types are employed in these environment-friendly vehicles consisting of the absorbent glass mat (AGM) and the enhanced flooded battery (EFB) systems. Above all, AGM batteries are utilised for start/stop systems with braking energy recuperation in mid-range and premium class vehicles.

## **TECHNICAL DATA AND INFORMATION**

- Valve-regulated AGM battery (VRLA)
- Range of 5 types with capacities from 60-105Ah
- Three times greater cycle resistance than standard batteries
- Highest E4 classification pursuant to EN 50342-1
- Leak-proof due to electrolyte bonding into an absorbent glass mat
- Zero maintenance due to recombination technology
- Highest V3 vibration resistance pursuant to EN 50342-1
- Maximum starting performance due to the very low internal resistance
- Installation in a lateral position possible (max. 90° angle)
- Flexible use as a starter and on-board power supply battery



# RUNNING BULL EFB

EFB technology is used mainly in mid-range and small cars with simple start/stop systems, but without energy recuperation. In the coming years, this type of cycle-resistant starter battery will be employed with growing frequency for first fitting.

## **TECHNICAL DATA AND INFORMATION**

- Range of 5 types with capacities from 60-95Ah
- Glass fleece on the separator and special active mass composition
- Twice the cycle resistance of standard batteries
- E3 classification pursuant to EN 50342-1
- Top V3 vibration resistance rating pursuant to EN 50342-1
- Double lid for protection against leaks and operational safety
- Zero maintenance due to modern calcium mesh technology



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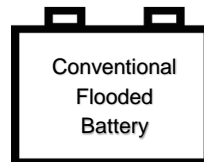
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# RUNNING BULL

*ENVIROMENTALLY FRIENDLY*

*INNOVATIVE POWER*



|                           |                 |                 |               |
|---------------------------|-----------------|-----------------|---------------|
| Number of Engine Starts   | up to 30.000    | up to 270.000   | up to 360.000 |
| Start/stop system         | No              | Yes             | Yes           |
| Brake Energy Recuperation | No              | No              | Yes           |
| Lower Co2 Emissions       | No              | Up to +5%       | Up to +8%     |
| Improved Fuel Consumption | No              | Up to +5%       | Up to +8%     |
| On-board power supply     | Yes             | BEST            | VERY BEST     |
| Improved Cycle Life Span  | No              | 2x              | 3x            |
| Leak Protection           | Up to 55° angle | Up to 55° angle | 100%          |



A start/stop car requires a start/stop



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