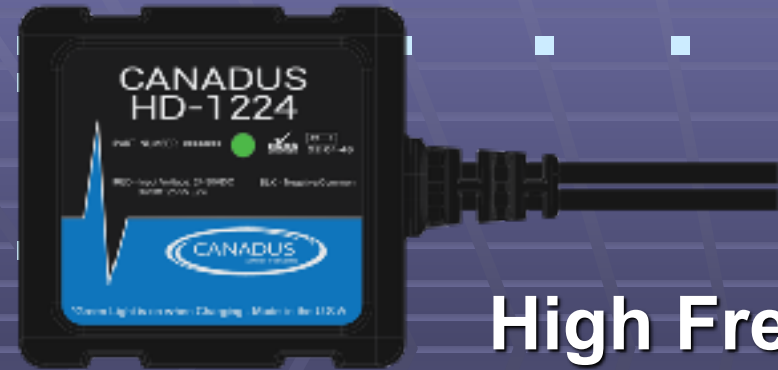


**Canadus
HD-1224**

**Battery
Desulfators**

jenskleven.no



High Frequency Battery Desulfators Canadus **HD-1224**

HFBD technology is exclusively delivered by the Canadus Battery Desulphator, a compact and sophisticated electronic device that prevents and reverses the sulphation process. The result – significantly longer battery life at peak capacity and improved electrical system performance and longevity.

“ increasing battery life by 50-100% or more”





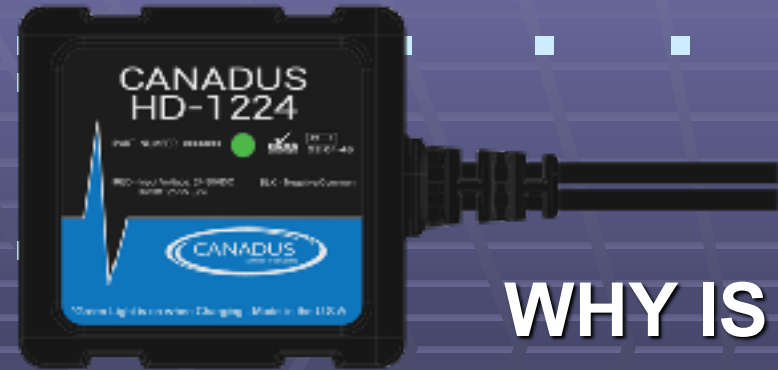
WHAT IS SULPHATION?

The Natural Enemy of Every Lead-Acid Battery

Lead-acid batteries generate electricity through the “double sulfate” chemical reaction. When a battery discharges, lead and lead dioxide, which are the active materials on the battery's plates, react with the sulfuric acid in the electrolyte to generate electrical current. As a final byproduct, an amorphous (non-crystalline) form of lead sulfate ($PbSO_4$) is produced.

During charging, the amorphous lead sulfate is easily converted back to lead, lead dioxide, and sulfuric acid, in essence returning the battery to its former state. Unfortunately, there is no “perfect machine”, and with repeated use, the ability of a battery to reach a full charge diminishes.





WHY IS SULPHATION A PROBLEM?

Less stored charge; less available power

Higher internal resistance; lower current output

HOW DOES THAT AFFECT ME?

batteries run out of power faster;

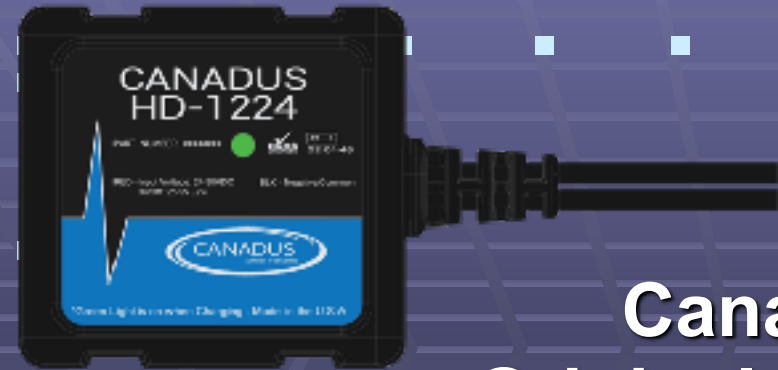
insufficient power for instruments & lights;

electric vehicles require frequent charging;

starter motors turn slower and overheat;

battery voltage drops with increasing load;





Canadus HD-1224

Original HFBD technology was developed in Canada in 1993.

Serves a single battery or bank of batteries – up to **2000Ah**

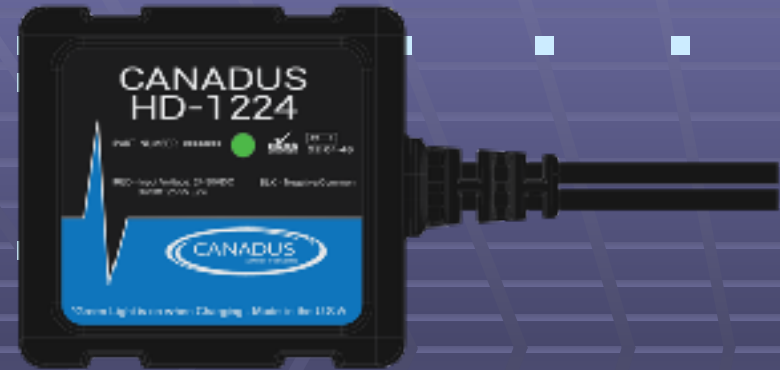
IP67 design for harsh environments

Costs much less than the equipment it protects & lost production time

8-year full replacement global warranty

“E” mark, ISO 16750-1-2-3-4-5. Volvo EMC Std; 515-003, NATO
approved+++++

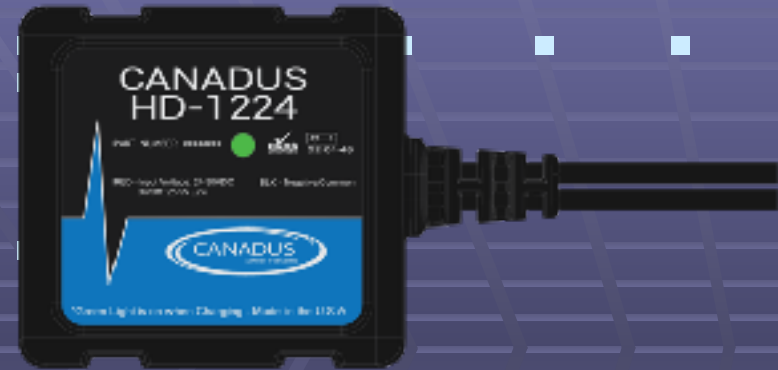




Any application that uses lead-acid batteries as a primary or secondary battery or batteries.

All type of Lead / acid batteries included AGM and Gel...





Installation is very simple – just attach to the battery terminals

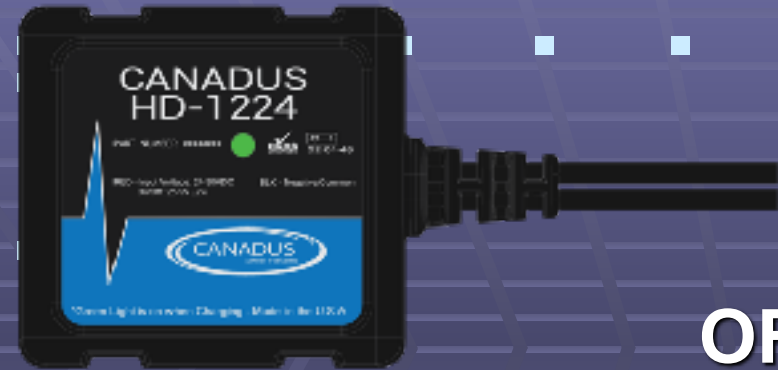
One flash for 12V

activate at 13,1V

Two flashes for 24V

activate at 26,2V





PRIMARY CAUSES OF BATTERIES FAILURE

Without Canadus HD-1224:

Typical charging voltages cannot breakdown the crystalline lead sulfate buildup, so sulphation gradually gets worse, and the performance of the battery declines.

To improve a battery's performance and extend its life significantly, sulphation must be eliminated. HD-1224 from the worlds leading supplier of the most effective HFBD technology is the solution to this.



