



FT Opto Laboratories

Client

Eflare Corporation Pty Ltd
222 St Kilda Rd
St Kilda Vic
Australia

Test Report No

051122

Date

21 November 2005

Eflare Battery Standby Life Test in a Moving Vehicle

The Eflare circuit is designed to preserve the integrity of the batteries by consuming negligible power ($< 5\mu\text{A}$) in the standby (off) condition in a moving vehicle. The following describes a field trial of this feature.

Two EF500 units were fitted with 2 Duracell D-Cell batteries each and stored in the boot of a car for two and one half years. The units were not operated during this time. Temperatures in the boot probably varied over the range 0° to 50°C .

Results

Test Unit	Battery 1 Start Voltage	Battery 1 Finish Voltage	Battery 2 Start Voltage	Battery 2 Finish Voltage	Start of Test	Completion of Test
EF500R x1	1.569	1.565	1.598	1.580	30 th May 2003	11 th November 2005
EF500A x 1	1.589	1.582	1.574	1.570	30 th May 2003	11 th November 2005

Comments

The average drop in battery voltage over two years was 0.008V. This equates to 0.053 hours use, ie only 0.13% of the minimum expected service life. This is equivalent to an off-state current of 0.76 μA .

Conclusion

The battery energy deterioration over a two and one half year period fitted into an Eflare in a moving vehicle is negligible.

Test Officer
Report

Harry Oliver
Rex Niven, M.Eng Sci

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