

TECHNICAL REPORT



**Explanation of the mathematical addition of working voltages, insulation
between circuits and use of PELV in TC 34 standards**





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**EXPLANATION OF THE MATHEMATICAL ADDITION
OF WORKING VOLTAGES, INSULATION BETWEEN CIRCUITS
AND USE OF PELV IN TC 34 STANDARDS**

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The text of this Technical Report is based on the following documents:

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Full information on the voting for the approval of this Technical Report can be found in the report on voting indicated in the above table.

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INTRODUCTION

This document provides background information to the following subjects being introduced into IEC TC 34 standards to cover new technologies associated with the use of LED light sources and controllable products.

This document consists of the following subdivisions:

Clause 4 – Mathematical addition of working voltages;

Clause 5 – Insulation between circuits;

Clause 6 – Use of protective extra low voltage (PELV);

Clause 7 – Insulation between LV supply and control line conductors.