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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 16895.30-2008

**Electrical installations of buildings -- Part 7-715: Requirements
for special installations or locations -- Extra-low-voltage
lighting installations**

建筑物电气装置 第7-715部分：特殊装置或场所的要求 特低电压照明装置

(English Translation)

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Foreword

All technical content GB (/ T) 16895 This section is mandatory.

GB (/ T) 16895 "Electrical installations of buildings" series of national standard is divided into the following five sections.

--- Part 1. Fundamental principles, assessment of general characteristics and definitions

--- Part 4. Security

--- Part 5. Selection and erection of electrical equipment

--- Part 6. Inspection Requirements for special installations or locations. --- Part 7 this is
Part 7. Requirements for special installations or locations in the 715 section.

This section identical with IEC 60364-7-715:1999 (first edition) "Electrical installations of buildings. Part 7-715. special device or field Extra low voltage lighting system "(in English) of the requirements.

This part of IEC 60364-7-715:1999 on the same technical content, but contains the

following editorial changes.

- a) the decimal symbol instead of using decimal notation " , " . " , " ;
- b) by deleting the IEC standard "Preface." this part of the reg number and IEC 60364-7-715:1999 exactly.

Appendix A of this section is informative appendix.

This part of the National Standardization Technical Committee of electrical building equipment (SAC/TC205) and focal points.

This section is responsible for drafting unit. electrical machines in Design and Research Institute.

Introduction

GB (/ T) of this section 16895 requires that supplement, modify or replace the GB (/ T) general requirements for the rest of the 16895 in certain Some content.

This section follows the clause numbering GB (/ T) 16895 mode and make the appropriate references.

No later connected to the dedicated Section 7-715 is GB (/ T) 16895 corresponding part numbers or terms of numbers.

GB (/ T) of this chapter is not listed in section 16895, section or article, it means that GB (/ T) corresponding to the general requirements 16895 remains Applicable.

GB 16895.30-2008/IEC 60364-7-715:1999 Electrical installations of buildings
Requirements for special installations or locations. Section 7-715 Extra low voltage lighting
device 715 extra low voltage lighting device

715.1 Scope

The special requirements of this section apply to the rated voltage not exceeding 50V AC or 120V DC power supply extra low voltage lighting Means.

Note 1: The definition of extra-low voltage lighting systems found in GB 7000.

Note 2: AC voltage value is the root mean square value.

715.2 Normative references the following documents contain provisions which, through GB (/ T) referenced in this section 16895, constitute provisions of this part. For dated references Documents, all subsequent amendments (excluding corrections) or revisions do not apply to this section; however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB 7000 (all) Lamps (idt IEC 60598 (all)) Part 2 GB 13140.2-1998 household and similar

purposes Connecting devices for low voltage circuits. As an independent member of the threaded Particular requirements for connecting devices of the type clamping units (idt IEC 60998-2-1:1990) Part 2 GB 13140.3-1998 household and similar purposes Connecting devices for low voltage circuits. As an independent member with no screw Particular requirements (idt IEC 60998-2-2:1991) grain-type clamping units for connecting devices GB 13961-2003 lamps power rail system safety requirements (IEC 60570:1995, IDT) Section 4 GB 16895.2-2005 Electrical installations of buildings. Protection for safety Chapter 42. Protection against thermal effects (IEC 60364-4-42.

2001, IDT)

GB 16895.5-2000 Electrical installations of buildings Part 4. Protection for safety Chapter 43. Protection against overcurrent (idt IEC 60364-4-43. 1977) Part 4-41 GB 16895.21-2004 Electrical installations of buildings. Protection for safety Protection against electric shock (IEC 60364-4-41.

2001, IDT)

Part 7 GB 19212.7-2006 Safety of power transformers, power supply units and similar products. general purpose safety isolating transformer Particular requirements for the pressure (IEC 61558-2-6:1997, IDT) Part 5 IEC 60364-5-559 Electrical installations of buildings. Selection and erection of electrical equipment Chapter 55. Other equipment -559. lamps and lighting fixtures IEC 60598-2-23:1996 Luminaires - Part 2. Particular requirements - Section 23. Extra low voltage lighting filament lamp system IEC 61046:1993 AC or DC power filament bulb electronic buck converter and general safety requirements Contact between 715.411 and direct contact with both indirect protection 715.411.1 extra low voltage lighting system should only use SELV. When using bare conductors (see this section 715.521.7), in accordance with GB 411.1.4.3, 16895.21-2004 maximum voltage should be 25V AC or 60V DC.

715.411.1.2 safety isolating transformer should meet the GB 19212.7-2006.

SELV power supply should be permanently installed.

Only isolation transformer primary circuit are connected in parallel, and the characteristics of the transformer is the same, only allows the transformer secondary circuit and GB 16895.30-2008/IEC 60364-7-715:1999 Union operation.

715.43 overcurrent protection in accordance with the requirements of GB 16895.5-2000, SELV circuits should share a protective device or each SELV circuit with a guarantee Care appliances.

Note 1: When selecting the primary protection of electrical, should take into account the impact of the transformer magnetizing current. Overcurrent protective devices should be non-automatic reset.

Note 2: The overcurrent protection can be used in line with the requirements of this section 715.482.5.2 protection appliances.

715.46 isolation and Continuity

715.462.5 When the parallel operation of transformers, the primary circuit should be fixedly connected to the common electrical isolation.

715.482 Fire Protection Nature 715.482.2 processing and storage materials Said 715.482.2.3 should follow the manufacturer's installation instructions, including the installation of electrical equipment on the surface of combustible and non-combustible material of Bright. But also refer to IEC 60364-5-559.

Fire hazard 715.482.4 transformer/converter 715.482.4.1 transformer should meet one of the following conditions.

--- In a side used in line with the requirements of this section 715.482.5.2 protection of electrical protection;

--- Short circuit resistant transformer (intrinsic or extrinsic type type) that identifies see Appendix A.

715.482.4.2 electronic converter shall comply with the IEC 61046:1993 and IEC 60598-2-23:1996 in 23.7.6.

NOTE: It is recommended to use an identification symbol converter, symbols see Appendix A.

715.482.5 short circuit caused the fire hazard

715.482.5.1 If the circuit two conductors are not insulated, they should meet one of the following conditions.

--- Special protective devices comply with the requirements of this section 715.482.5.2;

--- By a transformer power supply in line with GB 19212.7-2006 by power does not exceed the inverter power supply 200VA;

--- Distribution system in line with IEC 60598-2-23:1996 requirements.

715.482.5.2 prevent fire hazards special protective devices shall meet the following requirements.

--- On the lamp load continuous surveillance;

--- When a short circuit caused by power failures or other failures increases 60W or more, less than 0.3s automatically cut off power;

--- Reduced power supply circuit is working situations (for example, during the conduction angle control or power adjustments during bulb or damage Bad), such as occurs when more than 60W power increases caused by a fault, automatically cut off power;

--- When the power supply circuit switch is closed, such as occurs when more than 60W power increases caused by a fault, automatically cut off power;