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

GB 7260.4-2008

**Uninterruptible Power Systems (UPS) -- Part 1-2: General and
safety requirements for UPS used in restricted access locations**

不间断电源设备 第1-2部分：限制触及区使用的UPS的一般规定和安全要求
(English Translation)

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Foreword

GB 7260 "Uninterruptible Power Supply (UPS)" into the following sections.

- Part of 1-1. UPS general and safety requirements for use in operator access area;
- Part 1-2. UPS restricted access areas using a general and safety requirements;
- Part 2. Electromagnetic Compatibility (EMC) requirements;

--- Part 3. Determination of the test and performance requirements.

This section GB 7260 Part 1-2. All technical contents of this section is mandatory.

This partial modification using IEC 62040-1-2. a restricted access areas UPS used 2002 "Uninterruptible Power Supply Part 1-2 General regulations and safety requirements. " this part of IEC 62040-1-2:2002 compared, there is a technical differences.

4.9.15 revise this section as "unless otherwise required by the user, to the end user documentation, and identify the man-machine interface Chinese specifications should be used. " Appendix A of this section, to Appendix B, appendix C, Appendix D, Appendix E, Appendix F., Appendix G, appendix K, Appendix L, M Appendices, Appendix N and Appendix P is normative, Appendix H and Appendix J is an information appendix.

This section was proposed by China Electrical Equipment Industrial Association.

This part of the jurisdiction of the National Power Electronics Standardization Technical Committee (SAC/TC60).

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1.1 Scope

GB 7260 apply to this portion of the DC link uninterruptible power supply apparatus having an electronic storage device. This section cited GB 4943-2001 and IEC 60950-1:2001 related content.

The main function of this portion includes an uninterruptible power supply (UPS) is to ensure the continuity of the AC power output. UPS also allows electricity Retention characteristics specified source, thereby improving power quality. GB 4943-2001 and 60950-1 IEC .2001 related chapters on regional difference the same comment applies different.

This section applies the predetermined touch area installed in a restricted, low voltage distribution systems for mobile, in vertical, fixed or fitted formula UPS. This section provides the safety of personnel servicing requirements.

This section is intended to ensure the safety of the installation according to the method specified by the manufacturer, operation and maintenance of the UPS. UPS UPS may be a single unit, but also interconnect the UPS system.

This portion does not include a DC power supply of an electronic ballast (IEC 60347 and IEC 60925) and a rotating electric machine based UPS.

General and safety requirements for UPS installed in a predetermined area of the operator access, see GB 7260.1, electromagnetic compatibility (EMC) and requirements defined in GB 7260.2.

1.2 Special Applications

Although this section does not include all types of UPS, but still as its guiding document. For particular applications of UPS, may Some require additional energy requirements of this Part. These specific uses include.

--- UPS predetermined exposure work in the following environment. temperature extremes, excessive dust, humidity or vibration, flammable gas, corrosive or Explosive atmosphere, and so on;

--- physical contact area is within the patient 1.5m, UPS equipped with medical electronic equipment;

--- When the UPS withstand transient overvoltages exceeding GB /16935.1-1997 over the predetermined voltage category II in T, UPS power Some may require additional protection measures;

--- UPS may be flooded for the occasion and invasion of foreign substances need additional requirements. These guidelines and requirements related tests Appendix H;

--- long (over 30min) running Fang Bo output voltage waveform distortion UPS should be tested to verify the compatibility of the load.

Note: Scheduled UPS on a vehicle, boat or aircraft used or tropical regions, or in areas above 1000m altitude UPS, you may be required Different requirements.

2 Normative references

Terms of the following documents constitute provisions of this section by reference in this 7260 GB . For dated references, all subsequent amendments (excluding corrections) or revisions do not apply to this section, however, encouraged to reach an agreement under this section Whether the parties to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T basic methods and equipment safety rules conductor terminals and terminal-specific identification flag 4026-2004 machine interface identifier and application of general rules for an alphanumeric system (IEC 60445:1999, IDT) GB 4208 shell protection (IP code) (GB 4208-2008, IEC 60529:2001, IDT) GB 4943-2001 Safety of information technology equipment (eqv IEC 60950:1999) GB/T 5465.2 electrical equipment graphical symbols (GB/T 5465.2-1996, idt IEC 60417:1994) GB 7251.1 low voltage switchgear and control equipment - Part 1. tested and partially type test equipment (GB 7251.1-2005, IEC 60439-1:1999, IDT) GB 7260.1 uninterruptible power supply (UPS) - Part 1-1. General

safety and operator access areas UPS used to Seek (GB 7260.1-2008, IEC 62040-1-1:2002, MOD) GB 7260.2 uninterruptible power system (UPS) - Part 2. Electromagnetic Compatibility (EMC) requirements (GB 7260.2-2003, IEC 62040-2:1999, MOD) GB/T 7260.3 uninterruptible power supply (UPS) - Part 3. determining performance requirements and test methods (GB/T 7260.3-2003, IEC 62040-3:1999, MOD) Part 4-42 GB 16895.2-2005 building electrical devices. safety protection thermal effects (IEC 60364-4-42.

2001, IDT)

GB 16895.21-2004 building electrical apparatus Part 4-41. safety against electric shock (IEC 60364-4-41.

2001, IDT)

GB/T 16935.1-1997 the low pressure system with a first portion of the insulating device. Principles, requirements and tests (idt IEC 60664-1:1992) GB/T 17045-2006 Protection against electric shock device and a generic device (IEC 61140:2001, IDT) IEC 60364 (all parts) electrical installations of buildings IEC 60950-1:2001 Safety of information technology equipment - Part 1. General requirements IEC 61000-2-2:2002 Electromagnetic compatibility (EMC) Part 2-2. Public Environment voltage power supply system and channel frequency conducted disturbances Compatible with the level number transmission Definition 3

3.1 General

This section uses the following definitions. GB 4943-2001 and IEC 60950-1:2001 is also relevant definitions apply to this section.

Unless otherwise specified, "voltage" and "current" are root mean square values (r.m.s value) used in this part.

NOTE: When the presence of a non-sinusoidal signal, use can give the real root mean square value of the measuring instrument readings. Other definitions and terms refer to GB/T 7260.3.

3.1.1.

Constituted by a combination of converters, switches and energy storage device (secondary battery), when the input power failure to maintain continuity of load power supply equipment.

3.1.2.

Load power within the rated voltage and frequency in steady state and transient tolerance range, and waveform distortion and interrupted for a predetermined load limit.

3.1.3