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**Uninterruptible power systems (UPS) - Part 5-3: DC output UPS.
Performance and test requirements**

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Foreword

GB/T 7260 "Uninterruptible Power System (UPS)" has or plans to publish the following parts:

- Part 1-1: General regulations and safety requirements of UPS used in the area where the operator touches;
- Part 1-2: General regulations and safety requirements for UPS used in restricted areas;
- Part 2: Electromagnetic compatibility (EMC) requirements;
- Part 3: Methods and test requirements for determining performance;
- Part 4: Environmental requirements and reports;
- Part 5-3: DC output UPS performance and test requirements;

This part is part 5-3 of GB/T 7260:

This section was drafted in accordance with the rules given in GB/T 1:1-2009:

The translation method used in this part is equivalent to IEC 62040-5-3:2016

“Uninterruptible Power System (UPS) Part 5-3: DC Output

UPS performance and test requirements:

The Chinese documents that have a consistent correspondence with the international documents cited in this section are as follows:

---GB/T 2423:1-2008 Environmental testing of electric and electronic products Part 2: Test method Test A: Low temperature

(IEC 60068-2-1:2007, IDT)

---GB/T 2423:2-2008 Environmental testing of electric and electronic products Part 2: Test method Test B: High temperature

(IEC 60068-2-2:2007, IDT)

---GB/T 2423:3-2016 Environmental Test Part 2: Test Method Test Cab: Constant Humidity Test (IEC 60068-

2-78:2012, IDT)

---GB/T 2423:5-2019 Environmental Test Part 2: Test Method Test Ea and Guideline: Impact (IEC 60068-2-

27:2008, IDT)

---GB/T 2423:7-2018 Environmental test Part 2: Test method Test Ec: Impact caused by rough operation (main

For equipment type samples) (IEC 60068-2-31:2008, IDT)

---GB/T 3785:1-2010 Electroacoustic Sound Level Meter Part 1: Specification (IEC 61672-1:2002, IDT)

---GB/T 3859:1-2013 General requirements for semiconductor converters and power grid commutated converters Part 1-1: Basic requirements

Fan (IEC 60146-1-1:2009, MOD)

---GB/T 7260:1-2008 Uninterruptible power supply equipment (UPS) Part 1-1: UPS used in the operator's reach

General regulations and safety requirements (IEC 62040-1-1:2002, MOD)

---GB/T 7260:2-2009 Uninterruptible power supply equipment (UPS) Part 2: Electromagnetic compatibility (EMC) requirements (IEC 62040-

2:2005, IDT)

---GB/T 18313-2001 Acoustics information technology equipment and communication equipment air noise measurement (idtISO 7779:1999)

---GB/T 20159:3-2011 Environmental condition classification The relationship between environmental condition classification and environmental test and conversion guide

Fixed use in places with weather protection (IEC TR60721-4-3:2003, IDT)

This part was proposed by China Electrical Equipment Industry Association:

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1 Scope

This part of GB/T 7260 specifies electronic DC output uninterruptible power supply systems suitable for movable, non-movable and fixed installations:

System (DC uninterruptible power supply) performance and test requirements: This type of DC uninterruptible power supply has the following characteristics:

---Powered by an AC voltage source not exceeding 1000V;

---Provide a DC output voltage not exceeding 1500V;

---Contains an energy storage device;

---The main function is to ensure the continuous DC power supply to the load:

This section specifies the performance and test requirements of a complete DC uninterruptible power supply system (rather than a single DC uninterruptible power supply functional unit):

begging: The performance and test requirements of a single DC uninterruptible power supply functional unit can be found in the IEC publications mentioned in the references, which are in line with this part:

The points are not contradictory:

The power range of DC uninterruptible power supply ranges from less than one hundred watts to megawatts, which can meet the requirements of various loads on power availability and power quality:

Claim: See Appendix A and Appendix B for information about typical DC uninterruptible power supply configurations and topologies:

This part also includes components related to circuit breakers, disconnect switches, and interconnect switches (if any) integrated in the DC uninterruptible power supply:

Performance and test requirements: These components interact with other functional units of the DC uninterruptible power supply to maintain continuous load power: