

ICS 29.120.30
CCS K 30



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

GB/T 2099.31-2025

**Plugs and socket-outlets for household and similar purposes -
Part 31: Particular requirements for socket-outlets
incorporating USB power supply
(English Translation)**

Issued on: April 25, 2025

Implemented on: November 1, 2025

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is part 31 of GB/T 2099.GB/T 2099 "Plugs and sockets for household and similar purposes" has been published in the following parts.

--- Plugs and sockets for household and similar purposes Part 1: General requirements (GB/T 2099.1);

--- Plugs and sockets for household and similar purposes Part 2: Particular requirements for appliance sockets (GB/T 2099.2).

--- Plugs and sockets for household and similar purposes Part 2-5.Particular requirements for converters (GB/T 2099.3);

--- Plugs and sockets for household and similar purposes Part 2: Particular requirements for fixed non-interlocking switched sockets (GB/T 2099.4);

--- Plugs and sockets for household and similar purposes Part 2: Particular requirements for fixed interlocking switches and sockets (GB/T 2099.5);

--- Plugs and sockets for household and similar purposes Part 2: Particular requirements for plugs with fuses (GB/T 2099.6);

--- Safety technical specification for extension cord sockets for household and similar purposes (GB 2099.7);

--- Plugs and sockets for household and similar purposes Part 2-4. Particular requirements for safety extra low voltage (SELV) plugs and sockets (GB/T 2099.8);

--- Plugs and sockets for household and similar purposes Part 2-9. Particular requirements for information sockets (GB/T 2099.9);

--- Plugs and sockets for household and similar purposes Part 31: Particular requirements for sockets equipped with USB power supplies (GB/T 2099.31).

This document is modified to adopt IEC 60884-3-1:2021 "Plugs and socket-outlets for household and similar purposes - Part 3-1. Plugs and socket-outlets equipped with USB power supply" Special requirements for sockets.

The technical differences between this document and IEC 60884-3-1:2021 and their reasons are as follows.

--- The normative reference GB/T 2423.55 replaces IEC 60068-2-75, which is consistent with the actual reference in this document.

Adapt to my country's technical conditions and increase operability (see 24.101.4);

--- The normative reference GB/T 6109.1-2008 replaces IEC 60317-0-1:2013, which is consistent with the actual reference in this document.

Application conditions to adapt to my country's technical conditions and increase operability (see 101.2.2.2);

--- Replaced CISPR32 with the normative reference GB/T 9254.1, which is in line with the actual reference in this document to adapt to our National technical conditions, increase operability (see 31.3.3);

--- Replaced IEC 60127 (all parts) with the normative reference GB/T 9364 (all parts), in line with the actual to adapt to my country's technical conditions and increase operability (see 101.2.2.2);

--- Replaced IEC 61000-3-2 with the normative reference GB 17625.1, in line with the actual reference in this document, to adapt to my country's technical conditions and increased operability (see 31.3.2);

--- The normative reference GB/T 17626.2 replaces IEC 61000-4-2, which is in line with the actual reference in this document.

According to my country's technical conditions, increase operability (see Table 102, 31.2.5);

--- Replaced IEC 61000-4-3 with the normative reference GB/T 17626.3, in accordance with the actual reference in this document, to apply According to my country's technical conditions, increase operability (see Table 102, 31.2.6, Table 106);

--- Replaced IEC 61000-4-4 with the normative reference GB/T 17626.4, in accordance with the actual reference in this document, to apply According to my country's technical conditions, increase operability (see Table 102, 31.2.4);

--- Replaced IEC 61000-4-5 with the normative reference GB/T 17626.5, in accordance with the actual reference in this document, to apply According to my country's technical conditions, increase operability (see Table 102, 31.2.3);

--- Replaced IEC 61000-4-6 with the normative reference GB/T 17626.6, in accordance with the actual reference in this document, to apply According to my country's technical conditions, increase operability (see Table 102, 31.2.7);

--- Replaced IEC 61000-4-8 with the normative reference GB/T 17626.8, in accordance with the actual reference in this document, to apply According to my country's technical conditions, increase operability (see Table 102, 31.2.8);

--- The normative reference GB/T 17626.11 replaces IEC 61000-4-11, which is consistent with the actual reference in this document.

Adapt to my country's technical conditions and increase operability (see Table 102, 31.2.2);

--- Changed the minimum wire size marking requirements for connecting USB power supply and special terminals to adapt to my country's technical conditions and increase Operability (see 8.101);

--- With reference to GB/T 2099.1-2021, 9.3 of IEC 60884-3-1:2021 has been deleted to increase operability (IEC 60884-3-1.

9.3 of 2021);

--- Added 1mm probe test requirements to adapt to my country's technical conditions and increase operability (see 10.1);

--- Changed "see Figure 8" in 10.7 of IEC 60884-3-1:2021 to "see Figure 10 of GB/T 2099.1-2021" to increase operability Sexual activity (see 10.7);

--- Changed the "minimum size" requirement for the wires connected to the terminals and ends to "minimum cross-sectional area" to adapt to my country's technical conditions.

parts, increase operability (see Chapter 12);

--- Changed the insulation resistance test requirements when connected to USB power supply, and modified "between SELV circuits" to "between different SELV circuits" to adapt to my country's technical conditions and increase operability (see 17.101);