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

GB/T 15872-2013

Replacing GB/T 15872-1995

Power supply interface for semiconductor equipment

半导体设备电源接口

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Table of Contents

1 Scope	1
2 Normative references	1
2 Electrical accessories 3	5
5.2 pairs of terminals in claim	3
5.3 cable or cord	3

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB /"Power Semiconductor Device Interface", compared with the GB/T 15872-1995, major changes in T 15872-1995 as follows:

- On the standard "semiconductor device" (semiconductorequipment) defines the name;
- References GB/T 11918-2001, GB 2099.1-2008 and GB/T 156-2007 part of the terms and definitions used in the present Standard terms and definitions;
- Said the original standard plug and socket connectors and couplers for the power supply, according to GB 2099.1-2008 and GB/T 11918- 2001 standard specifies renamed electrical accessories;
- GB/T 11918-2001 provisions in a variety of electrical accessories rated voltage and rated current preferred values, but according to our current The actual supply voltage single phase 220V, 50Hz and three phase 380V, 50Hz, with GB 2099.1-2008 and order GB 1002-2008, GB 1003-2008 standard agreement, confirmed.
- a) Rated voltage single-phase power circuits used for electrical accessories for 250V, three-phase power supply circuit used in the amount of electrical accessories Constant voltage of 440V;
- b) for household and similar purposes plugs and sockets rated single-phase current preferred series 6A, 10A and 16A;
- c) for household and similar uses three-phase plug and socket rated current of the preferred series 16A, 25A and 32A;
- d) industrial plug and socket coupler is preferably rated series 16A, 32A, 63A and 125A.
- GB/T 15872-1995 specified device's power cable should be rubber insulated cables, GB 2099.1-2008 prescribed home Plug and socket with similar purposes and is in line with PVC insulated cables GB/T 5023-2008 and in accordance with the provisions of GB/T

5013-2008 rubber insulated cables provisions exist, while industrial use only plug sockets and couplers conform GB/T 5013-2008 specified rubber insulated cables. Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents. The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China. This standard by the National Standardization Technical Committee Electronic Measuring Instruments (SAC/TC153) centralized. This standard was drafted. People's Liberation Army Air Force Radar Academy, Industry and Information Technology Ministry of Electronics Industry Standardization Institute. The main drafters of this standard. ZHU Zhong Nepal, Qi Ying Chuan Mei Changyi, Qi Cheng Chao, Tao Xuefeng, Huang Yinghua, Qian Li, Cao Ling. This standard replaces the standards previously issued as follows:

--- GB/T 15872-1995. Semiconductor Equipment Power Interface

1 Scope

GB/T 15872-2013 is the Chinese national standard on power supply interface for semiconductor equipment, in the field of electronics. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 17 December 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 15 May 2014. Classification: ICS 31.220.10, CCS L23. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the categories of power semiconductor devices power interface, select electrical accessories, wire and cable requirements. This standard applies to semiconductor device power connector.

2 Normative references

The following documents for the application of this document is essential, dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 156-2007 standard voltage

GB 1002-2008 Household and similar single-phase plug and socket type, basic parameters and dimensions

GB 1003-2008 Household and similar three-phase plug and socket type, basic parameters

and dimensions

GB 2099.1-2008 plug socket for household and similar purposes - Part 1. General requirements

GB/T 5013.1-2008 rated voltage of 450/750V and below rubber insulated cables - Part 1. General requirements

GB/T 5013.4-2008 rated voltage of 450/750V and below rubber insulated cables Part 4. Cords and flexible cables

GB/T 5023.5-2008 rated voltage of 450/750V and below PVC insulated cables Part 5. Flexible cables (cords)

GB/T 11918-2001 industrial plug and socket couplers - Part 1. General requirements (idt IEC 60309-1:1999)

GB/T 11919-2001 industrial plug and socket coupling - Part 2. With pin and sleeve size interchangeable electrical accessories Requirements

3 Terms and Definitions

GB/T 11918-2001, GB 2099.1-2008 and GB 156-2007 defined by the following terms and definitions apply to this document. NOTE. The following terms and definitions in the plugs and sockets, cable couplers and appliance couplers, referred to as electrical accessories, its use is shown in Figure 1.

3.1 Semiconductor Equipment semiconductor equipment Equipment from power semiconductor devices and other components of the composition and its input power supply for the 50Hz AC.

3.2 Socket socket-outlet Predetermined and fixed wiring installed with or installed in equipment that part.

Note. The socket can also be installed in the output circuit isolation transformer inside.

3.3 Plug plug Or devices connected to a flexible cable connector into a whole or scheduled directly with this portion of the flexible cable connections.

3.4 Connector connector And connected to the power of a flexible cable or integral part of the pre-cable connection.

Note. In general, both the connector and socket contacts are arranged in the same.