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

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**Minimum allowable values of energy efficiency
and energy efficiency grades for arc welding
machines**

电弧焊机能效限定值及能效等级

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Foreword

Clause 4.3 of this standard is mandatory, while the others are recommended.

This standard is drafted according to the rules provided in GB/T 1.1 -2009.

This standard is proposed by Department of Resource Conservation and Environmental Protection of National Development and Reform Commission.

This standard is under the jurisdiction of National Technical Committee on Energy Fundamentals and Management Standardization (SAC/TC 20).

Drafting unit of this standard: Panasonic Welding Systems (Tangshan) Co., Ltd., China National Institute of Standardization, Kaierda Group Co., Ltd., Chengdu Institute for Electrical Inspection, Zhejiang Kende Mechanical & Electrical Co.,Ltd., Chengdu Xionggong Electrical Industrial Co., Ltd., Beijing Time Technologies Co., Ltd., Chengdu Southwest Welding Equipment Manufacture Co., Ltd., Shenzhen Riland Industry Co., Ltd., South China University of Technology, Guangzhou City Tongcheng Welding Equipment Technology Co., Ltd., China Quality Certification Center, Zhejiang Provincial Institute for Quality Inspection of Mechanical and Electrical Products, Chengdu Sanfang Electrical Appliance Co., Ltd.,

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Minimum allowable values of energy efficiency and energy efficiency grades for arc welding machines

1 Scope

This standard specifies energy efficiency grade, energy efficiency limit value, energy conservation evaluation value and test method of arc welding machine.

This standard applies to arc welding machine with power supply at the voltage specified in table 1 of GB/T 156 designed for industrial and professional use.

This standard does not apply to AC TIG arc welding machine, AC and DC TIG arc welding machine, arc welding machine driven by mechanical equipments manual metal arc welding power source with restricted loads used by non-professionals.

2 Normative references

Following documents are indispensable for application of this document. For the dated documents so quoted, only dated versions apply to this document. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 156 Standard voltage (IEC 60038)

GB/T 2900.22 Electrotechnical terminology--Electric welding machine

GB/T 8118 The general specification for arc welding machines

GB/T 15579.1 Safety requirements for arc welding equipment--Part 1: Welding power sources (IEC 60974-1)

3 Terms and definitions

The ones defined in GB/T 2900.22 and GB 15579.1 and following terms and definitions apply to this document.

3.1

Minimum allowable values of energy efficiency for arc welding machine

Under test conditions specified in standard, the minimum guarantee value of allowable efficiency of arc welding machine in rated conditions.

3.2

Evaluating values of energy conservation for arc welding machine

Under test conditions specified in standard, minimum guarantee value of efficiency (%) of

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