

Australian Standard[®]

**STABILIZED POWER
SUPPLIES—D.C. OUTPUT**

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The following interests were represented on the committee responsible for the preparation of this standard:

Australian Electrical and Electronic Manufacturers Association
Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Department of Defence
Electrical Supply Association of Australia
Monash University
Railway of Australia
Telecom Australia

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**STABILIZED POWER
SUPPLIES—D.C. OUTPUT**

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PREFACE

This standard was prepared by the Association's Committee on Power Electronics. Although editorially modified in terminology, format and general treatment of the subject, it is similar to IEC 478-1 to IEC 478-4, Stabilized Power Supplies, D.C. Output. Cross-references to other Australian standards have been inserted and may have introduced some slight technical changes but, in general, the standard can be regarded as technically similar to IEC 478.

The purpose of the standard is to define and prescribe parameters and establish procedures applicable to stabilized power supplies designed to supply d.c. power from an a.c. or d.c. source for application in the computer and telecommunication industries and in industrial equipment.

The term 'regulated power supply' is in common use and considered synonymous with the term 'stabilized power supply'. However in order to harmonize with IEC 478, only the term 'stabilized power supply' is used.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
STABILIZED POWER SUPPLIES—D.C. OUTPUT

PART 1—INTRODUCTION AND DEFINITIONS

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This standard defines and prescribes parameters and establishes procedures applicable to stabilized power supplies designed to supply d.c. power from a.c. or d.c. source for applications such as, but not necessarily limited to, the following:

- (a) Computers.
- (b) Telecommunication.
- (c) Laboratories.
- (d) Industrial equipment.

Calibrated stabilized power supplies for electrical measurement purposes are excluded from the scope of this standard.

1.2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

- AS 1044 Limits of Electromagnetic Interference for Electrical Appliances and Equipment
- AS 1052 Electromagnetic Interference Measuring Equipment
Part 1 — Equipment for the Frequency Range 10 kHz to 150 kHz

Part 2 — Equipment for the Frequency Range 0.15 MHz to 100 MHz

AS 1259 Sound Level Meters
Part 2 — Type 2, Precision

AS 1939 Classification of Degrees of Protection Provided by Enclosures

AS 2279 Disturbances in Mains Supply Networks
Part 1 — Limitation of Harmonics Caused by Household and Similar Electrical Appliances

Part 2 — Limitation of Harmonics Caused by Industrial Equipment

CISPR 7A First Supplement to CISPR 7, Recommendations of the CISPR Recommendation 43—Limits and Methods of Measurement of Interference Voltage for Regulating Controls Incorporating Semiconductor Devices