

Australian/New Zealand Standard™

**Photovoltaic inverters — Data sheet  
and name plate**



AS/NZS IEC 62894:2020

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## Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-042, Renewable Energy Power Supply Systems and Equipment.

The objective of this Standard is to provide minimum information required to configure a safe and optimal system with photovoltaic inverters.

This Standard describes data sheet and name plate information for photovoltaic inverters in grid parallel operation.

This Standard is identical with, and has been reproduced from, IEC 62894:2014+AMD1:2016 CSV (ED.1.1), *Photovoltaic inverters — Data sheet and name plate*.

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**PHOTOVOLTAIC INVERTERS –  
DATA SHEET AND NAME PLATE****FOREWORD**

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**This Final version does not show where the technical content is modified by amendment 1. A separate Redline version with all changes highlighted is available in this publication.**

International Standard IEC 62894 has been prepared by IEC technical committee 82: Solar photovoltaic energy systems.

This standard has been derived from EN 50524.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

# PHOTOVOLTAIC INVERTERS – DATA SHEET AND NAME PLATE

## 1 Scope

This International Standard describes data sheet and name plate information for photovoltaic inverters in grid parallel operation.

The object of this standard is to provide minimum information required to configure a safe and optimal system with photovoltaic inverters.

In this context, data sheet information is a technical description separate from the photovoltaic inverter. The name plate is a sign of durable construction on or in the photovoltaic inverter. The name plate may be inside the photovoltaic inverter only if the name plate is visible once a door is opened in normal use.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60664-1, *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*

IEC 60721-2-1, *Classification of environmental conditions – Part 2-1: Environmental conditions appearing in nature – Temperature and humidity*

IEC 61683, *Photovoltaic systems – Power conditioners – Procedure for measuring efficiency*

IEC 62109-1, *Safety of power converters for use in photovoltaic power systems – Part 1: General requirements*

ISO 216, *Writing paper and certain classes of printed matter – Trimmed sizes – A and B series, and indication of machine direction*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1 Input side (PV generator)

#### 3.1.1

#### maximum input voltage

$V_{dcmax}$

allowed maximum voltage at the inverter input