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Irish Standard
I.S. EN 50524:2009

Data sheet and name plate for photovoltaic inverters

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I.S. EN 50524:2009

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50524

July 2009

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English version

Data sheet and name plate for photovoltaic inverters

Fiche technique et plaque d'identification pour les onduleurs photovoltaïques

Datenblatt- und Typschildangaben von Photovoltaik-Wechselrichtern

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 82, Solar photovoltaic energy systems.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50524 on 2009-06-01.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2010-06-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2012-06-01

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1 Scope

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

The intent of this document 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 at 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 referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

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

EN 61683, *Photovoltaic systems - Power conditioners - Procedure for measuring efficiency* (IEC 61683)

EN 62109-1 [1)], *Safety of power converters for use in photovoltaic power systems - Part 1: General requirements* (IEC 62109-1[1)])

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

IEC 62103, *Electronics equipment for use in power installations*

3 Terms and definitions

3.1 Input side (PV - Generator)

3.1.1
maximum input voltage (V_{dcmax})
allowed maximum voltage at the inverter input

3.1.2
minimum input voltage (V_{dcmin})
minimum input voltage for the inverter to energize the utility grid, independent of mode of operation

3.1.3
start-up input voltage ($V_{dcstart}$)
input voltage at which the inverter starts energizing the utility grid

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1) At draft stage.

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