

Datasheet and nameplate information for photovoltaic modules

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50380:2003 sisaldab Euroopa standardi EN 50380:2003 ingliskeelset teksti. Käesolev dokument on jõustatud 08.05.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 50380:2003 consists of the English text of the European standard EN 50380:2003. This document is endorsed on 08.05.2003 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: This document describes data sheet and nameplate information for non-concentrating photovoltaic modules. The intent of this document is to provide minimum information required to configure a safe and optimal system with photovoltaic modules. In this context, data sheet information is a technical description separate from the photovoltaic module. The nameplate is a sign in durable construction at or in the photovoltaic module	Scope: This document describes data sheet and nameplate information for non-concentrating photovoltaic modules. The intent of this document is to provide minimum information required to configure a safe and optimal system with photovoltaic modules. In this context, data sheet information is a technical description separate from the photovoltaic module. The nameplate is a sign in durable construction at or in the photovoltaic module
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Võtmesõnad: electrical engineering, identification plates, marking, modules, parameters, photovoltaics, properties, signs, technical data sheets

Datasheet and nameplate information for photovoltaic modules

Spécifications particulières et informations
sur les plaques de constructeur
pour les modules photovoltaïques

Datenblatt- und Typenschildangaben
von Photovoltaik-Modulen

This European Standard was approved by CENELEC on 2002-12-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 82 (former BTTF 86-2), Solar photovoltaic energy systems.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50380 on 2002-12-01.

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) 2003-12-01
 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2005-12-01
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1 Scope

This document describes data sheet and nameplate information for non-concentrating photovoltaic modules.

The intent of this document is to provide minimum information required to configure a safe and optimal system with photovoltaic modules.

In this context, data sheet information is a technical description separate from the photovoltaic module. The nameplate is a sign in durable construction at or in the photovoltaic module.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

EN 61215	1995	Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval (IEC 61215:1993)
EN 60904-1	1993	Photovoltaic devices – Part 1: Measurement of photovoltaic current-voltage characteristics (IEC 60904-1:1987)
EN 60904-3	1993	Photovoltaic devices – Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data (IEC 60904-3:1989)
IEC 60904-9	1995	Photovoltaic devices – Part 9: Solar simulator performance requirements

3 Data sheet information

3.1 Certificate

All relevant certificates shall be listed on the data sheet.

3.2 Constructive material

The descriptions of the following materials used to build the PV module are required:

- cell type and material;
- frame material;
- front cover type.

3.3 Electrical performance

The characteristic quantities in 3.3.1 to 3.3.3 are required.

3.3.1 $P_{\max}$, I_{sc} , V_{oc} and V_{mpp} at STC (1 000 W/m², (25 ± 2) °C, AM 1,5 according to EN 60904-3)

For a-Si modules, nominal and minimum values of maximum output power at STC must also be specified.

3.3.2 $P_{\max}$, I_{sc} , V_{oc} and V_{mpp} at at 800 W/m², NOCT, AM 1,5

3.3.3 Reduction of efficiency from an irradiance of 1 000 W/m² to 200 W/m² ($T_{\text{Module}} = 25$ °C) following EN 60904-1