



National Standards Authority of Ireland

IRISH STANDARD

I.S. CWA 14642:2003

ICS 27.010

**CEN WORKSHOP AGREEMENT (CWA) -
ELECTRICAL INTERFACE FOR DOMESTIC
COGENERATION - REQUIREMENTS FOR
DISTRIBUTION NETWORK CONNECTION
FOR MICRO COGENERATION SYSTEMS FOR
DOMESTIC USE UP TO 16 A PER PHASE IN
LOW-VOLTAGE DISTRIBUTION NETWORKS
(230/400 V)**

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
March 7, 2003*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2003

Price Code M

Údarás um Chaighdeán Náisiúnta na hÉireann



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN WORKSHOP AGREEMENT	CWA 14642:2003
CEN Workshop Agreement (CWA) - Electrical interface for domestic cogeneration - Requirements for distribution network connection for micro cogeneration systems for domestic use up to 16 A per phase in low-voltage distribution networks (230/400 V)	
Date of approval: 2002-09-01	

2003-01-22

WI: WS005001

CWA 14 642 00002/79286

Sehr geehrte Mitglieder,

Dear Members,

Chers Membres,

aufgrund des erreichten technischen Konsens und der positiven Übereinstimmung eines Arbeitskreises von Vertretern interessierter Kreise senden wir Ihnen den Text der o.g CEN-Fachvereinbarung.

Further to the technical consensus reached and favourable agreement by a Workshop of representatives of interested parties, please find enclosed the text of the above mentioned CEN Workshop Agreement.

Suite à l'établissement d'un consensus technique et à l'accord favorable d'un Workshop de représentants des parties intéressées, nous vous prions de trouver, ci-joint, le texte du CEN Workshop Agreement mentionné ci-dessus.

Das durch den Arbeitskreis verfolgte Verfahren in der Entwicklung dieser Fachvereinbarung wurde von den nationalen Mitgliedern von CEN angenommen, aber weder die nationalen Mitglieder von CEN noch das CEN-Management-Zentrum können für den technischen Inhalt dieser CEN-Fachvereinbarung oder mögliche Widersprüche zu Normen oder Gesetzen verantwortlich gemacht werden.

The formal process followed by the workshop in the development of this Workshop Agreement has been endorsed by the National Members of CEN but neither the National Members of CEN nor the CEN Management Centre can be held accountable for the technical content of this CEN Workshop Agreement or possible conflicts with standards or legislation.

Le processus formel mis en oeuvre par le Workshop pour le développement de ce Workshop Agreement a été entériné par les Membres nationaux du CEN, mais ni les Membres nationaux du CEN, ni le Centre de Gestion du CEN ne peuvent être tenus pour responsables du contenu technique de ce CEN Workshop Agreement ou de possibles divergences avec des normes ou avec la législation.

Eine List der Einzelpersonlichkeiten und Organisationen, die den technischen Konsens, vertreten durch diese CEN-Fachvereinbarung, unterstützten, ist im CEN-Management-Zentrum verfügbar. Kommentare oder Vorschläge von Anwendern dieser CEN-Fachvereinbarung sind willkommen und sollten an das CEN-Management-Zentrum gesandt werden.

A list of the individuals and organizations which supported the technical consensus represented by this CEN Workshop Agreement is available to purchasers from the CEN Management Centre. Comments or suggestions from the users of this CEN Workshop Agreement are welcome and should be addressed to the CEN Management Centre.

La liste des individus et des organisations qui ont soutenu le consensus technique représenté par ce CEN Workshop Agreement est disponible auprès du Centre de Gestion du CEN. Commentaires et suggestions de la part des utilisateurs de ce Workshop Agreement sont bienvenus, et doivent être adressés au Centre de Gestion du CEN.

Diese Fachvereinbarung wird in Übereinstimmung mit den Entscheidungen des Verwaltungsrates und der Resolution CA 31/1997 verteilt.

This Workshop Agreement is circulated in accordance with the decisions of the Administrative Board and Resolution CA 31/1997.

Ce Workshop Agreement est distribué selon les décisions du Conseil d'Administration et selon la Résolution CA 31/1997.

Diese CEN-Fachvereinbarung kann in keiner Weise als eine durch CEN und ihre Mitglieder entwickelte offizielle Norm betrachtet werden.

This CEN Workshop Agreement can in no way be held as being an official standard developed by CEN and its Members.

Ce Workshop Agreement ne peut en aucun cas être considéré comme une norme officielle du CEN et de ses Membres.

Mit freundlichen Grüßen

Yours faithfully,

Veuillez agréer, Chers Membres, l'expression de nos sentiments distingués.


G. HONGLER
Secretary General

Enclosures

T2/TALLA


CEN

CWA 14642

WORKSHOP

January 2003

AGREEMENT

ICS 27.010

English version

CEN Workshop Agreement (CWA) - Electrical interface for domestic cogeneration - Requirements for distribution network connection for micro cogeneration systems for domestic use up to 16 A per phase in low-voltage distribution networks (230/400 V)

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties, the constitution of which is indicated in the foreword of this Workshop Agreement.

The formal process followed by the Workshop in the development of this Workshop Agreement has been endorsed by the National Members of CEN but neither the National Members of CEN nor the CEN Management Centre can be held accountable for the technical content of this CEN Workshop Agreement or possible conflicts with standards or legislation.

This CEN Workshop Agreement can in no way be held as being an official standard developed by CEN and its Members.

This CEN Workshop Agreement is publicly available as a reference document from the CEN Members National Standard Bodies.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

CWA 14642:2003 (E)**Content**

<u>1</u>	<u>Scope</u>	7
<u>2</u>	<u>References</u>	8
<u>3</u>	<u>Terms and definitions</u>	9
<u>4</u>	<u>Safety requirements</u>	13
<u>4.1</u>	<u>General</u>	13
<u>4.1.1</u>	<u>The electrical installation</u>	13
<u>4.1.2</u>	<u>Electrical equipment</u>	14
<u>4.2</u>	<u>Connection of the appliance</u>	14
<u>4.3</u>	<u>Connection of multiple micro-cogeneration appliances</u>	14
<u>4.4</u>	<u>Protection functions of the electrical interface</u>	14
<u>4.4.1</u>	<u>Over-/Under-frequency</u>	15
<u>4.4.2</u>	<u>Over-/Under-voltage</u>	15
<u>4.4.3</u>	<u>Over-current protection</u>	16
<u>4.4.4</u>	<u>Other protection criteria</u>	16
<u>4.5</u>	<u>Earthing</u>	17
<u>4.6</u>	<u>Residual current protection</u>	17
<u>4.7</u>	<u>Re-connection of the appliance</u>	17
<u>4.8</u>	<u>Synchronisation</u>	17
<u>5</u>	<u>Power quality</u>	17
<u>5.1</u>	<u>Electromagnetic emission / immunity</u>	17
<u>5.2</u>	<u>DC injection</u>	17
<u>5.3</u>	<u>Power factor</u>	17
<u>5.4</u>	<u>Voltage changes and flicker</u>	17
<u>5.5</u>	<u>Voltage distortion</u>	18
<u>6</u>	<u>Operation and safety of the appliance</u>	18
<u>6.1</u>	<u>General</u>	18
<u>6.2</u>	<u>Information plate and labelling</u>	18
<u>6.3</u>	<u>Maintenance & routine testing</u>	19
<u>7</u>	<u>Commissioning</u>	19
<u>7.1</u>	<u>General</u>	19
<u>7.2</u>	<u>Installation</u>	19

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-