

NEK 502:2016

# Plugger og stikkontakter for boliger og liknende bruksområder

Norske tillegg og avvik til NEK IEC 60884-1 som gjelder for plugger og stikkontakter som brukes i Norge

**Norsk elektroteknisk norm**



**NEK**

NORSK ELEKTROTEKNISK KOMITE



**NEK 502:2016**

Utgave 3

Erstatter NEK 502:2006

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Norsk elektroteknisk norm

Plugs and socket-outlets for household and similar purposes

Norwegian amendments and deviations to NEK IEC 60884-1  
concerning plugs and socket-outlets being used in Norway

Norwegian electrotechnical standard



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# NEK 502:2016

## Norske tillegg og avvik til NEK IEC 60884-1

Produsert 2016-07-01

### Plugger og Stikkontakter for boliger og liknende bruksområder

#### Norske tillegg og avvik til NEK IEC 60884-1 som gjelder for plugger og stikkontakter som brukes i Norge

Denne norm, som kun er utgitt på engelsk språk, omfatter og beskriver de plugger og stikkontakter som er vanlig brukt i Norge.

Normen skal anvendes sammen med gjeldende utgave av NEK IEC 60884-1.

2,5 A 250 V Klasse II plugg, SS XVI:

Alternativ I dekkes av denne norm.

Alternativ II "Euro plugg" dekkes av NEK EN 50075, og omhandles ikke i denne norm.

2,5 A 250 V Klasse II stikkontakt (Euro stikkontakt) dekkes av denne norm.

16 A 250 V Klasse 0 og Klasse I plugger og stikkontakter dekkes av denne norm.

25 A 250 V 2P+J plugg og stikkontakt for komfyrer dekkes av denne norm.

Denne normen erstatter NEK 502:2006

### Plugs and socket-outlets for household and similar purposes

#### Norwegian amendments and deviations to NEK IEC 60884-1 concerning plugs and socket-outlets being used in Norway

This standard, is published in English language only, describes and includes plugs and socket-outlets for general use in Norway.

This standard shall be used in conjunction with valid edition of NEK IEC 60884-1.

2,5 A 250 V Class II plug, SS XVI:

Alternative I is covered in this standard.

Alternative II "Euro-plug" is covered by NEK EN 50075, and is not part of this standard.

2,5 A 250 V Class II socket-outlet (Euro socket-outlet) is covered by this standard.

16 A 250 V Class 0 and Class I plugs and socket-outlets are covered by this standard.

25 A 250 V 2P+E plug and socket-outlet for power supply of cookers are covered by this standard.

This standard replaces NEK 502:2006

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## Foreword

This standard shall be used in conjunction with valid edition of NEK IEC 60884-1.

In addition Annex NO-1, Annex NO-2 and relevant parts of Annex NO-3 and NO-4 shall be used for the products according to the following part 2 standards:

NEK IEC 60884-2- series,

Part 2-1: Particular requirements for fused plugs,

Part 2-2: Particular requirements for socket-outlets for appliances

Part 2-3: Particular requirements for switched socket-outlets without interlock for fixed installations

Part 2-4: Particular requirements for plugs and socket-outlets for SELV.

Part 2-5: Particular requirements for adaptors

Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations

Part 2-7: Particular requirements for cord extension sets

NOTE: For SELV plugs and socket-outlets according to NEK IEC 60884-2-4 Annex NO-1 and NO-2 is not applicable. Relevant parts of NO-3 and NO-4 shall be considered.



## 1 Scope

This clause of NEK IEC 60884-1 is applicable, except as follows:

Add the following explanation to the first paragraph:

NOTE 101 Examples of products that are within the scope of this standard are:

- plugs and socket-outlets according to Standard Sheets shown in Annex NO-1
- 2,5 A 250 V Class II socket-outlets
- socket-outlets with incorporated components (eg. fuse, switch, USB power supply, etc)Annex NO-3
- plugs and socket outlets intended to be used in temperatures below -5°C, Annex NO-4

NOTE 102 This standard does not apply to

- flat non-rewirable two-pole plugs 2.5 A 250 V, with cord, for the connection of class II-equipment for household and similar purposes (EN 50075);
- plugs, socket-outlets and couplers for industrial purposes (60309);
- appliance couplers for household and similar general purposes coupler (NEK EN 60320);
- Electrical accessories - Cord sets and interconnection cord sets (NEK EN 60799);
- IEC system of plugs and socket-outlets for household and similar purposes (NEK EN 60906);
- cable reels for household and similar purposes (NEK EN 61242);

NOTE 103 For appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas), additional tests may be needed.

Add after NOTE 5:

Requirements for mounting boxes (60mm cc, ref figure NO24) for accessories can be found in NEK EN60670-1 and NEK 516.

## 2 Normative references

This clause of NEK IEC 60884-1 is applicable, with the following modifications:

In Norway the CENELEC (EN) version of listed IEC standard shall be used. Example of standards to be used showed below:

Reference	Equivalent Norwegian Standard	Notes
IEC 60068-series	NEK EN 60068	Endorsement of several parts of IEC 60068
IEC 60112	NEK EN 60112	EN 60112
IEC 60227-series	NEK EN 50525 Series	EN 50525 series
IEC 60228-series	NEK EN 50525 Series	EN 50525 series
IEC 60245-series	NEK EN 50525 Series	EN 50525 series
IEC 60320-1	NEK EN 60320-1	EN 60320-1
IEC 60417	NEK IEC 60417	IEC 60417
IEC 60423	NEK EN 60423	EN 60423
IEC 60529	NEK EN 60529	EN 60529

IEC 60695-2-10	NEK EN 60695-2-10	EN 60695-2-10
IEC 60695-2-11	NEK EN 60695-2-11	EN 60695-2-11
IEC 60669 (all parts)	NEK EN 60669 (All parts)	EN 60669 (All parts)
IEC 60999-1	NEK EN 60999-1	EN 60999-1
IEC 61032	NEK EN 61032	EN 61032
IEC 61058 (all parts)	NEK EN 61058 (all parts)	EN 61058 (all parts)
IEC 61140	NEK EN 61140	EN 61140
IEC 61643-11	NEK EN 61643-11	EN 61643-11

Add the following references:

NEK 516	Standard sheets for installation boxes for household and similar fixed installations
NEK EN 41003	Particular safety requirements for equipment to be connected to telecommunication networks
NEK EN 50075	Flat non-rewirable two-pole plugs, 2,5 A 250 V, with cord, for the connection of class II equipment for household and similar purposes
NEK EN 60670-1	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 1: General requirements
IEC 61643-12	Low-voltage surge protective devices – Part 12: Surge protective devices connected to low-voltage power distribution systems – Selection and application principles

### 3 Definitions

This clause of NEK IEC 60884-1 is applicable, except as follows:

NOTE Socket outlets used in mobile devices might become portable during use, and must also meet the relevant requirements for cord extension sets according to NEK-IEC 60884-2-7.

Add the following definition:

#### 3.32 Cover

Cover is the visible part, which together with the base becomes a socket outlet unit.

### 4 General requirements

This clause of NEK IEC 60884-1 is applicable, except as follows:

For safety reasons, socket outlet must be tested as base and cover together as one complete product, not in separate units.

For safety reasons, such as unsafe compatibility, the socket outlet must be tested together with its base and cover together as one complete unit from the same manufacturer, and not in separate units.

To ensure compliance with the required product standards, manufacturer is responsible to provide socket outlets and cover, as complete unit on the market.

(See DE DIN 49440-1) If the socket outlet has incorporated switches, dimmers, etc, these functions need to meet the requirements in the other relevant standards.