

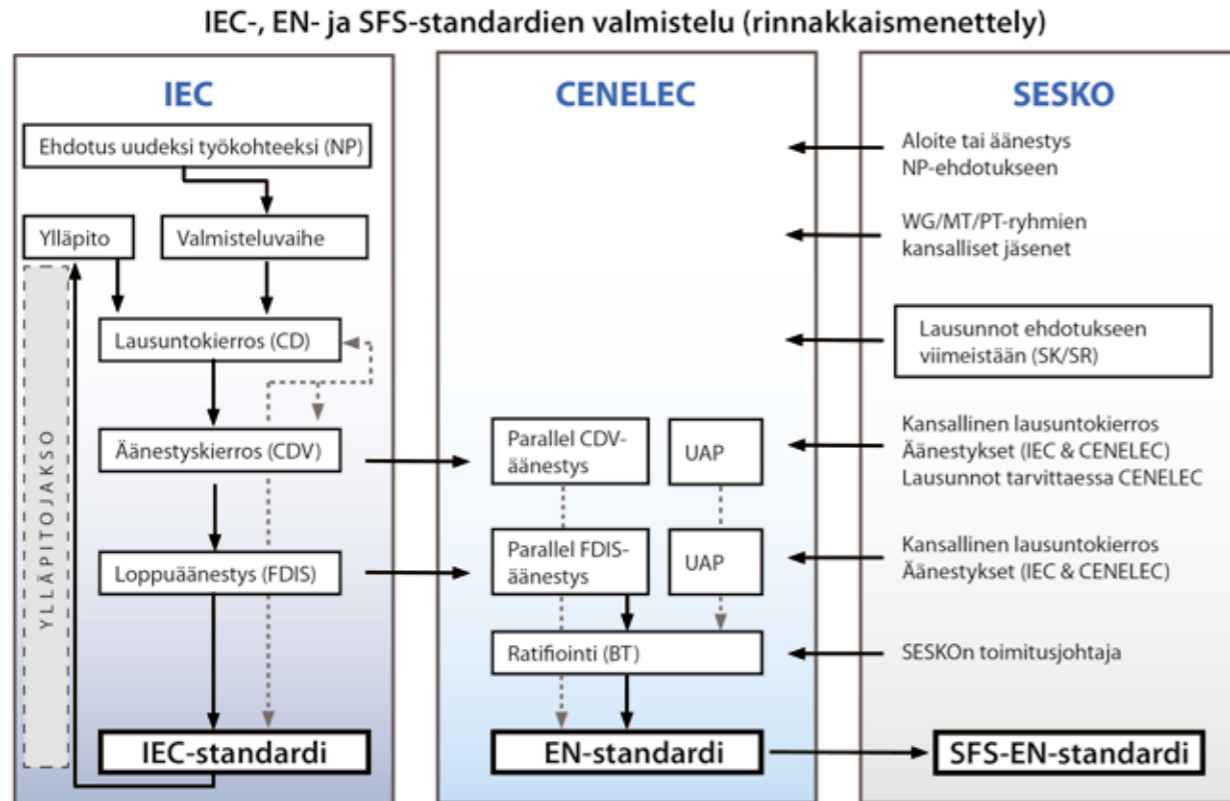
SESKOn alueelta
julkaistut

SFS-STANDARDIT 2016

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IEC-, EN- ja SFS-EN-standardien valmistelu (rinnakkaismenettely), EN- ja SFS-standardien valmistelu (ilman rinnakkaismenettelyä), SFS-standardien valmistelu	
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Johdanto

Nykyisin vahvistettavista kansallisista SFS-standardeista on suurin osa SFS-EN-standardeja, sillä EN-standardit on saatettava identtisiksi SFS-EN-standardeiksi. Suunnilleen 85 % sähköalan EN-standardeista perustuu IEC-standardeihin ja tarvittaessa niitä on täydennetty yhteiseurooppalaisilla muutoksilla. IEC-standardeja ja muita IEC-julkaisuja on voimassa noin 6100 kpl.

Jos IEC ei ole kiinnostunut laatimaan kansainvälistä standardia tietyltä alueelta, niin CENELEC laatii tällöin puhtaasti eurooppalaisen EN-standardin (home grown). Näitä on noin 15 % kaikista eurooppalaisista standardeista. Lisäksi CENELEC laatii HD-harmonisointiasiakirjoja, kun ei ole mahdollista tehdä EN-standardia esimerkiksi kansallisten käytäntöjen vuoksi. HD-harmonisointiasiakirjaa ei ole pakko vahvistaa kansalliseksi standardiksi, mutta siitä voidaan vahvistaa osia suomalaisiksi standardiksi sisältöä muuttamatta. Näin on tehty esimerkiksi suomalaisia energiakaapelistandardeja.

Kansallisia SFS-standardeja laaditaan enää hyvin harvoin ja niitä tehdään lähinnä sanastoista, sähköosenuksista, energiakaapeleista ja eräistä muista vastaavista

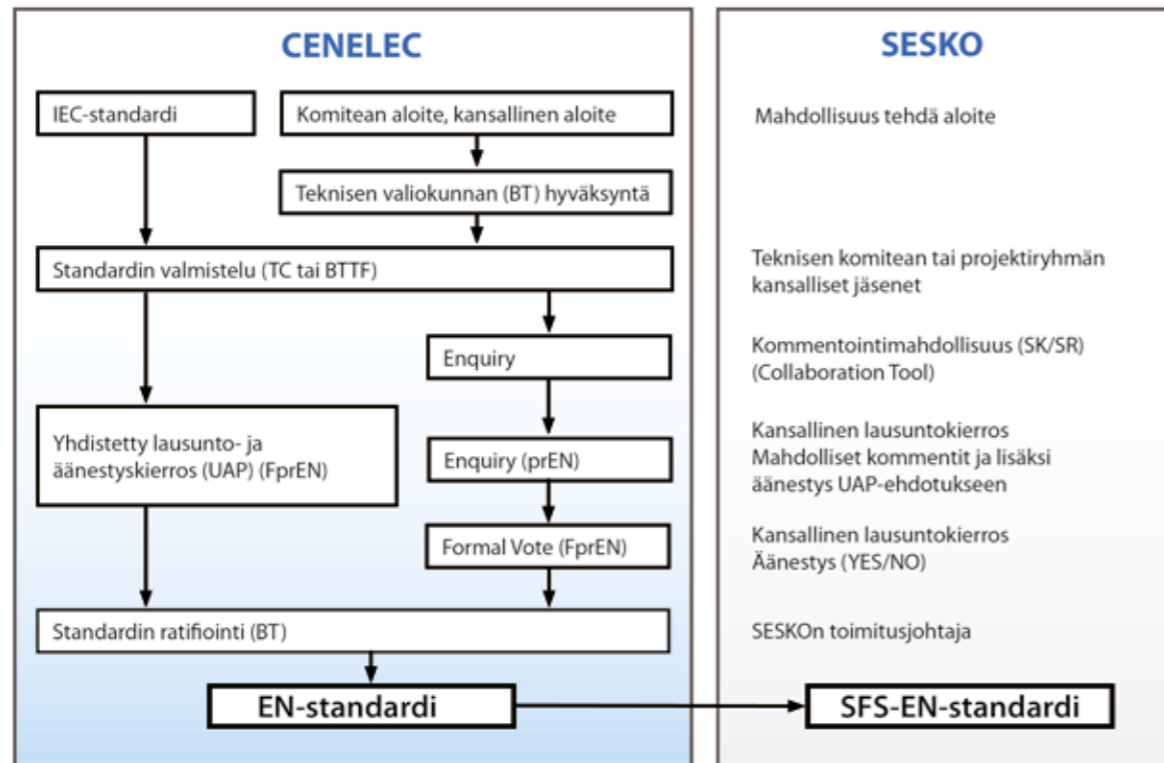
aiheista, joissa eri mailla on erilaisia käytäntöjä. Tällöinkin SFS-standardin esikuvana on joko IEC-standardi tai HD-harmonisointiasiakirja.

Nykyisin kaikki sähköalan eurooppalaiset EN-standardit julkaistaan englanninkielisinä SFS-EN-standardeina. Osa standardeista käännetään myöhemmin ja yleensä tämä standardi sisältää myös alkuperäisen englanninkielisen tekstin. Tällainen standardi ei kumoa aiemmin julkaistua englanninkielistä SFS-EN-standardia. Näin ollen eräistä SFS-EN-standardeista on olemassa sekä englanninkielinen versio että kaksikielinen versio, joka sisältää myös suomenkielisen käännöksen.

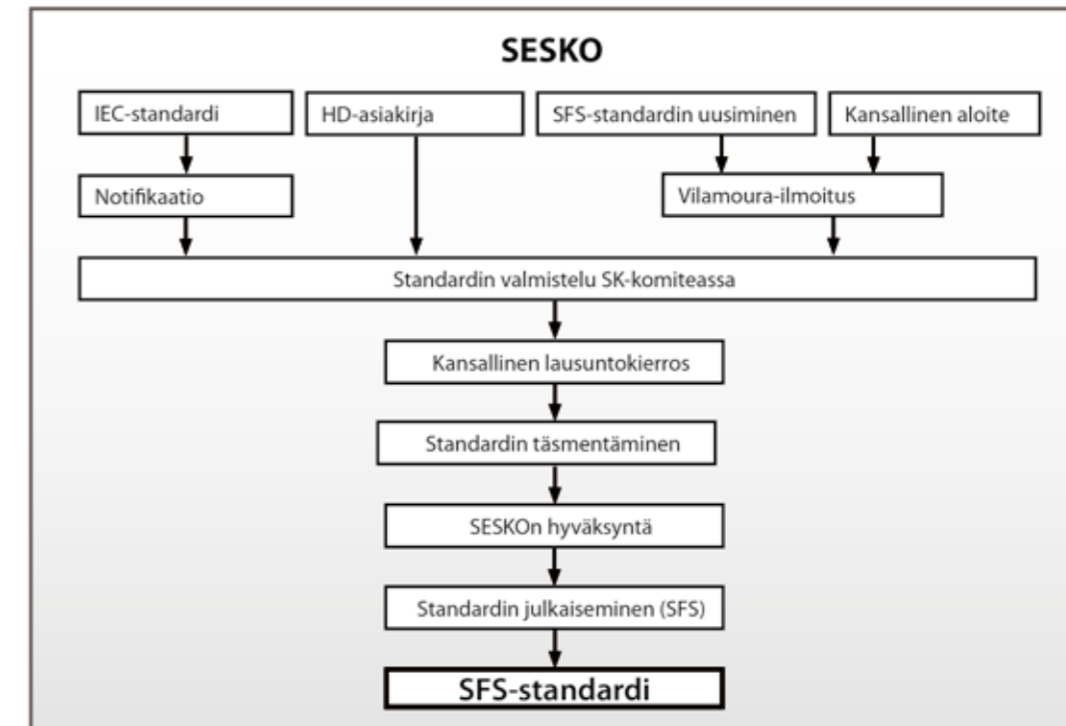
Tiedot kaikista SFS-EN- sekä IEC-standardeista löytyvät SFS-kaupasta <https://sales.sfs.fi> ja niitä voi tilata Suomen Standardisoimisliitto SFS ry:n myyntipalvelusta. Myös IEC:n verkkokaupasta voi hankkia suoraan yksittäisiä IEC-standardeja ja standardikokoelmia. SESKO neuvoo (asiakaspalvelu@sesko.fi, p. 09 696 3970) suomalaisia sähköalan standardien käytössä.

Juha Vesa, SESKO

EN- ja SFS-standardien valmistelu (ilman rinnakkaismenettelyä)



Puhtaasti kansallisten standardien valmistelu



SESKO-lehti Ajankohtaista sähköalan standardoinnista. Luettavissa sähköisenä verkkosivulla www.sesko.fi. Sisältöä saa lainata lähde mainiten. ISSN 2343-4619 (painettu), ISSN 2343-4627 (verkkopainettu). Vuosikerta 4 nroa/2017, PAINO: Picaset Oy, Helsinki. JULKAISIJA: SESKO ry, Särkiniementie 3, 00210 HELSINKI, p. 09 696 391, asiakaspalvelu@sesko.fi, www.sesko.fi TOIMITUS: Päätoimittaja: Sinikka Hieta-Wilkman, Standardiluettelon toimittaja: Juha Vesa, Taitto: Pia Rouste

SFS-tunnus	Otsikko	Vahvistus-/ julkaisupvm.
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Suomalaiset SFS-standardit ja suomenkielisinä julkaistut SFS-EN-standardit

SFS 5215	Voimapistokytkimet. Talouspistokytkin 16 A ja 32 A	16.12.2016
SFS 5610/A11	Kotitalouksiin ja vastaaviin käyttöihin tarkoitetut pistokytkimet. Osa 1: Yleiset vaatimukset	16.12.2016
SFS 5678	Valaisimet. Osa 2: Erityisvaatimukset. Luku 302: Saunavalaisimet	15.4.2016
SFS 6002:en	Sähkötyöturvallisuus/Safety at electrical work	7.6.2016
SFS 7039	Kaapeleiden palotekninen käyttäytyminen. Rakennustuoteasetuksen paloluokkia vastaavat kansalliset palo-ominaisuustasot	10.6.2016
SFS-EN 45501	Ei-automaattisia vaakoja koskevat metrologiset vaatimukset	27.12.2016
SFS-EN 50504	Kaarihitsauslaitteiden validointi	15.3.2016
SFS-EN 50565-1	Energiakaapelit. Mitoitusjännitteiltään enintään 450/750 V (U ₀ /U) pienjännitekaapelien käyttöohjeet. Osa 1: Yleiset ohjeet	13.12.2016
SFS-EN 60079-14 + AC	Räjähdyksivaaralliset tilat. Osa 14: Sähköasennusten suunnittelu, laitevalinta ja asentaminen	6.9.2016
SFS-EN 60079-17	Räjähdyksivaaralliset tilat. Osa 17: Sähköasennusten tarkastus ja kunnossapito	18.10.2016
SFS-EN 60598-1	Valaisimet. Osa 1: Yleiset vaatimukset ja testit	19.4.2016
SFS-EN 60974-4	Kaarihitsauslaitteet. Osa 4: Määräaikaistarkastus ja testaus	26.4.2016
SFS-EN 60974-9	Kaarihitsauslaitteet. Osa 9: Asennus ja käyttö	26.4.2016
SFS-EN 61340-4-1 + A1	Staatintinen sähkö. Osa 4-1: Erityisten sovellusten standarditestaustmenetelmät. Lattiapäällysteiden ja asennettujen lattioiden sähköresistanssin mittaaminen	31.5.2016
SFS-EN 61340-5-1	Staatintinen sähkö. Osa 5-1: Elektronisten komponenttien suojaaminen staattiselta sähköltä. Yleiset vaatimukset	2.12.2016
SFS-EN 61340-5-3	Staatintinen sähkö. Osa 5-3: Elektronisten komponenttien suojaaminen staattiselta sähköltä. Sähköstaattisille purkauksille herkille komponenteille tarkoitettujen pakkausten ominaisuuksien ja vaatimusten luokittelu	21.6.2016
SFS-EN 61829	Aurinkosähköpaneelito. Laitteiston virta-jännite-ominaisuuksien mittaaminen	11.3.2016
SFS-EN 62446-1	Aurinkosähköjärjestelmät. Vaatimukset dokumentaatiolle, kunnossapidolle ja testaamiselle. Osa 1: Sähköverkkoon kytketyt järjestelmät. Dokumentaatio, käyttöönottotestit ja tarkastus	22.4.2016
SFS-EN 62504	Yleisiin valaistuskäyttöihin käytettävät ledituotteet. Termit ja määrittelyt	22.3.2016
SFS-EN 62676-4	Turvasovelluksissa käytettävät kameravalvontajärjestelmät. Osa 4: Soveltamisohjeet	23.2.2016
SFS-EN 62708	Prosessiteollisuuden sähkö- ja automaatioprojekteissa käytettävät dokumentitilajit	31.5.2016

Ruotsinkielisenä julkaistu SFS-standardi

SFS 6001:sv	Högspänningsinstallationer	8.3.2016
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SFS-tunnus	Otsikko	Vahvistus-/ julkaisupvm.
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Englanninkielisinä julkaistut SFS-EN-standardit

SFS-EN 45544-4:en	Workplace atmospheres. Electrical apparatus used for the direct detection and direct concentration measurement of toxic gases and vapours. Part 4: Guide for selection, installation, use and maintenance	24.3.2016
SFS-EN 50052:en	High-voltage switchgear and controlgear - Gas-filled cast aluminium alloy enclosures	30.12.2016
SFS-EN 50090-5-3:en	Home and Building Electronic Systems (HBES) - Part 5-3: Media and media dependent layers - Radio Frequency for HBES Class 1	22.1.2016
SFS-EN 50122-1/A2:en	Railway applications - Fixed installations - Electrical safety, earthing and the return circuit - Part 1: Protective provisions against electric shock	22.1.2016
SFS-EN 50122-1/A3:en	Railway applications - Fixed installations - Electrical safety, earthing and the return circuit - Part 1: Protective provisions against electric shock	25.11.2016
SFS-EN 50131-2-7-1/A2:en	Alarm systems - Intrusion and hold-up systems - Part 2-7-1: Intrusion detectors - Glass break detectors (acoustic)	23.6.2016
SFS-EN 50131-2-7-2/A2:en	Alarm systems - Intrusion and hold-up systems - Part 2-7-2: Intrusion detectors - Glass break detectors (passive)	23.6.2016
SFS-EN 50131-2-7-3/A2:en	Alarm systems - Intrusion and hold-up systems - Part 2-7-3: Intrusion detectors - Glass break detectors (active)	23.6.2016
SFS-EN 50131-2-8:en	Alarm systems - Intrusion and hold-up systems - Part 2-8: Intrusion detectors - Shock detectors	30.12.2016
SFS-EN 50152-3-2:en	Railway applications - Fixed installations - Particular requirements for a.c. switchgear - Part 3-2: Measurement, control and protection devices for specific use in a.c. traction systems - Current transformers	23.6.2016
SFS-EN 50152-3-3:en	Railway applications - Fixed installations - Particular requirements for a.c. switchgear - Part 3-3: Measurement, control and protection devices for specific use in a.c. traction systems - Voltage transformers	23.6.2016
SFS-EN 50193-1:en	Electric instantaneous water heaters - Methods for measuring the Performance - Part 1: General requirements	5.8.2016
SFS-EN 50193-2-1:en	Electric instantaneous water heaters - Part 2-1: Methods for measuring the performance - Multifunctional electric instantaneous water heaters	27.5.2016
SFS-EN 50194-2/A1:en	Electrical apparatus for the detection of combustible gases in domestic premises - Part 2: Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises - Additional test methods and performance requirements	23.6.2016
SFS-EN 50242:en	Electric dishwashers for household use - Methods for measuring the performance	5.8.2016
SFS-EN 50244:en	Electrical apparatus for the detection of combustible gases in domestic premises - Guide on the selection, installation, use and maintenance	20.5.2016
SFS-EN 50289-1-11:en	Communication cables - Specifications for test methods - Part 1-11: Electrical test methods - Characteristic impedance, input impedance, return loss	30.12.2016
SFS-EN 50289-4-16:en	Communication cables - Specifications for test methods - Part 4-16: Environmental test methods - Circuit integrity under fire conditions	30.9.2016
SFS-EN 50290-2-20:en	Communication cables - Part 2-20: Common design rules and construction - General	21.10.2016
SFS-EN 50290-2-29:en	Communication cables - Part 2-29: Common design rules and construction - Crosslinked polyethylene insulation compounds: instrumentation, control and field bus cables	30.9.2016
SFS-EN 50290-2-33:en	Communication cables - Part 2-33: Common design rules and construction - Polyethylene insulation compounds for multi element metallic cables for indoor installation (data cable)	27.5.2016

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SFS-EN 50290-2-35:en	Communication cables - Part 2-35: Common design rules and construction - Polyamide sheathing compound	2.9.2016
SFS-EN 50290-2-36:en	Communication cables - Part 2-36: Common design rules and construction - Crosslinked Silicone rubber insulation compound	2.9.2016
SFS-EN 50290-2-37:en	Communication cables - Part 2-37: Common design rules and construction - Polyethylene insulation for coaxial cables	27.5.2016
SFS-EN 50290-2-38:en	Communication cables - Part 2-38: Common design rules and construction - Polypropylene insulation for coaxial cables	27.5.2016
SFS-EN 50310:en	Telecommunications bonding networks for buildings and other structures	10.6.2016
SFS-EN 50341-2-4:en	Overhead electrical lines exceeding AC 1 kV - Part 2-4: National Normative Aspects (NNA) for Germany (based on EN 50341-1:2012)	12.2.2016
SFS-EN 50341-2-16:en	Overhead electrical lines exceeding AC 1 kV - Part 2-16: National Normative Aspects (NNA) for NORWAY (based on EN 50341-1:2012)	16.12.2016
SFS-EN 50341-2-18:en	Overhead electrical lines exceeding AC 1 kV - Part 2-18: National Normative Aspects (NNA) for Sweden (based on EN 50341-1:2012)	16.12.2016
SFS-EN 50341-2-22:en	Overhead electrical lines exceeding AC 1 kV - Part 2-22: National Normative Aspects (NNA) for Poland (based on EN 50341-1:2012)	24.3.2016
SFS-EN 50341-2-23:en	Overhead electrical lines exceeding AC 1 kV - Part 2-23: National Normative Aspects (NNA) for SLOVAKIA (based on EN 50341-1:2012)	16.12.2016
SFS-EN 50367/A1:en	Railway applications - Current collection systems - Technical criteria for the interaction between pantograph and overhead line (to achieve free access)	16.9.2016
SFS-EN 50399/A1:en	Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test - Test apparatus, procedures, results	1.7.2016
SFS-EN 50405/A1:en	Railway applications - Current collection systems - Pantographs, testing methods for contact strips	25.11.2016
SFS-EN 50411-3-8:en	Fibre organizers and closures to be used in optical fibre communication systems - Product specifications - Part 3-8: Fibre management system, terminal equipment box type 1 for category C	22.1.2016
SFS-EN 50526-3:en	Railway application - Fixed installations - D.C. surge arresters and voltage limiting devices - Part 3: Application Guide	22.1.2016
SFS-EN 50527-1:en	Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices - Part 1: General	16.12.2016
SFS-EN 50527-2-1:en	Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices - Part 2-1: Specific assessment for workers with cardiac pacemakers	16.12.2016
SFS-EN 50533/A1:en	Railway applications - Three-phase train line voltage characteristics	25.11.2016
SFS-EN 50545-1/A1:en	Electrical apparatus for the detection and measurement of toxic and combustible gases in car parks and tunnels - Part 1: General performance requirements and test methods for the detection and measurement of carbon monoxide and nitrogen oxides	8.4.2016
SFS-EN 50553/A1:en	Railway applications - Requirements for running capability in case of fire on board of rolling stock	8.4.2016
SFS-EN 50561-3:en	Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - Limits and methods of measurement - Part 3: Apparatus operating above 30 MHz	5.2.2016
SFS-EN 50575/A1:en	Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements	10.6.2016
SFS-EN 50577:en	Electric cables - Fire resistance test for unprotected electric cables (P classification)	29.1.2016

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SFS-EN 50582:en	Procedure to assess the circuit integrity of optical fibres in a cable under resistance to fire testing	19.8.2016
SFS-EN 50583-1:en	Photovoltaics in buildings - Part 1: BIPV modules	29.1.2016
SFS-EN 50583-2:en	Photovoltaics in buildings - Part 2: BIPV systems	29.1.2016
SFS-EN 50588-1/A1:en	Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV - Part 1: General requirements	23.6.2016
SFS-EN 50592:en	Railway applications - Testing of rolling stock for electromagnetic compatibility with axle counters	28.10.2016
SFS-EN 50598-2/A1:en	Ecodesign for power drive systems, motor starters, power electronics & their driven applications - Part 2: Energy efficiency indicators for power drive systems and motor starters	26.8.2016
SFS-EN 50600-2-5:en	Information technology - Data centre facilities and infrastructures - Part 2-5: Security systems	8.4.2016
SFS-EN 50600-3-1:en	Information technology - Data centre facilities and infrastructures - Part 3-1: Management and operational information	8.4.2016
SFS-EN 50604-1:en	Secondary lithium batteries for light EV (electric vehicle) applications - Part 1: General safety requirements and test methods	19.8.2016
SFS-EN 50628:en	Erection of electrical installations in underground mines	5.8.2016
SFS-EN 50629/A1:en	Energy performance of large power transformers (Um > 36 kV or Sr ≥ 40 MVA)	23.6.2016
SFS-EN 50632-2-3:en	Electric motor-operated tools - Dust measurement procedure - Part 2-3: Particular requirements for concrete grinders and disk-type sanders	5.8.2016
SFS-EN 50632-2-4:en	Electric motor-operated tools - Dust measurement procedure - Part 2-4: Particular requirements for sanders other than disk type	5.8.2016
SFS-EN 50632-2-5:en	Electric motor-operated tools - Dust measurement procedure - Part 2-5: Particular requirements for circular saws	5.8.2016
SFS-EN 50632-2-11:en	Electric motor-operated tools - Dust measurement procedure - Part 2-11: Particular requirements for jig and sabre saws	5.8.2016
SFS-EN 50632-2-14:en	Electric motor-operated tools - Dust measurement procedure - Part 2-14: Particular requirements for planers	5.8.2016
SFS-EN 50632-2-17:en	Electric motor-operated tools - Dust measurement procedure - Part 2-17: Particular requirements for routers and trimmers	5.8.2016
SFS-EN 50632-2-19:en	Electric motor-operated tools - Dust measurement procedure - Part 2-19: Particular requirements for jointers	5.8.2016
SFS-EN 50632-3-1:en	Electric motor-operated tools - Dust measurement procedure - Part 3-1: Particular requirements for transportable table saws	5.8.2016
SFS-EN 50632-3-9:en	Electric motor-operated tools - Dust measurement procedure - Part 3-9: Particular requirements for transportable mitre saws	23.9.2016
SFS-EN 50633:en	Railway applications - Fixed installations - Protection principles for AC and DC electric traction systems	19.8.2016
SFS-EN 55011:en	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	15.4.2016
SFS-EN 55013/A1:en	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	15.4.2016
SFS-EN 55016-1-3/A1:en	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-3: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power	20.5.2016
SFS-EN 55020/A12:en	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement	26.2.2016

SFS-tunnus	Otsikko	Vahvistus-/ julkaisupvm.
SFS-EN 60034-27-3:en	Rotating electrical machines - Part 27-3: Dielectric dissipation factor measurement on stator winding insulation of rotating electrical machines	5.8.2016
SFS-EN 60061-1/A52:en	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps	22.1.2016
SFS-EN 60061-1/A54:en	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps	7.10.2016
SFS-EN 60061-2/A51:en	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2: Lampholders	7.10.2016
SFS-EN 60061-3/A52:en	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 3: Gauges	7.10.2016
SFS-EN 60062:en	Marking codes for resistors and capacitors	4.11.2016
SFS-EN 60068-2-39:en	Environmental testing - Part 2-39: Tests - Tests and guidance: Combined temperature or temperature and humidity with low air pressure tests	5.2.2016
SFS-EN 60068-3-13:en	Environmental testing - Part 3-13: Supporting documentation and guidance on Test T - Soldering	16.9.2016
SFS-EN 60076-10:en	Power transformers - Part 10: Determination of sound levels	25.11.2016
SFS-EN 60086-2:en	Primary batteries - Part 2: Physical and electrical specifications	11.3.2016
SFS-EN 60086-3:en	Primary batteries - Part 3: Watch batteries	14.10.2016
SFS-EN 60086-5:en	Primary batteries - Part 5: Safety of batteries with aqueous electrolyte	2.12.2016
SFS-EN 60127-7:en	Miniature fuses - Part 7: Miniature fuse-links for special applications	5.2.2016
SFS-EN 60153-1:en	Hollow metallic waveguides - Part 1: General requirements and measuring methods	16.9.2016
SFS-EN 60153-2:en	Hollow metallic waveguides - Part 2: Relevant specifications for ordinary rectangular waveguides	16.9.2016
SFS-EN 60154-1:en	Flanges for waveguides - Part 1: General requirements	16.9.2016
SFS-EN 60154-2:en	Flanges for waveguides - Part 2: Relevant specifications for flanges for ordinary rectangular waveguides	9.12.2016
SFS-EN 60191-6-13:en	Mechanical standardization of semiconductor devices - Part 6-13: Design guideline of open-top-type sockets for Fine-pitch Ball Grid Array (FBGA) and Fine-pitch Land Grid Array (FLGA)	9.12.2016
SFS-EN 60195:en	Method of measurement of current noise generated in fixed resistors	5.8.2016
SFS-EN 60269-4/A2:en	Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices	23.12.2016
SFS-EN 60270/A1:en	High-voltage test techniques - Partial discharge measurements	24.3.2016
SFS-EN 60297-3-109:en	Mechanical structures for electrical and electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series - Part 3-109: Dimensions of chassis for embedded computing devices	26.2.2016
SFS-EN 60310:en	Railway applications - Traction transformers and inductors on board rolling Stock	13.5.2016
SFS-EN 60317-0-4:en	Specifications for particular types of winding wires - Part 0-4: General requirements - Glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire	5.2.2016
SFS-EN 60317-31:en	Specifications for particular types of winding wires - Part 31: Glass fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180	5.2.2016
SFS-EN 60317-32:en	Specifications for particular types of winding wires - Part 32: Glass fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 155	5.2.2016

SFS-tunnus	Otsikko	Vahvistus-/ julkaisupvm.
SFS-EN 60317-33:en	Specifications for particular types of winding wires - Part 33: Glass fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 200	5.2.2016
SFS-EN 60317-39:en	Specifications for particular types of winding wires - Part 39: Glass-fibre braided resin or varnish-impregnated, bare or enamelled rectangular copper wire, temperature index 180	29.1.2016
SFS-EN 60317-59:en	Specifications for particular type of winding wires - Part 59: Polyamideimide enameled round copper wire, class 240	19.2.2016
SFS-EN 60332-1-2/A11:en	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame	19.8.2016
SFS-EN 60335-2-3:en	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons	29.1.2016
SFS-EN 60335-2-8/A1:en	Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances	11.3.2016
SFS-EN 60335-2-14/A12:en	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines	29.1.2016
SFS-EN 60335-2-15:en	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids	29.1.2016
SFS-EN 60335-2-25/A2:en	Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens	11.3.2016
SFS-EN 60335-2-35:en	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters	29.1.2016
SFS-EN 60335-2-37/A12:en	Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric deep fat fryers	1.4.2016
SFS-EN 60335-2-58/A12:en	Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines	5.2.2016
SFS-EN 60335-2-86/A2:en	Household and similar electrical appliances - Safety - Part 2-86: Particular requirements for electric fishing machines	4.3.2016
SFS-EN 60335-2-86/A11:en	Household and similar electrical appliances - Safety - Part 2-86: Particular requirements for electric fishing machines	29.1.2016
SFS-EN 60335-2-89/A1:en	Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor	26.2.2016
SFS-EN 60335-2-102:en	Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections	5.2.2016
SFS-EN 60350-1:en	Household electric cooking appliances - Part 1: Ranges, ovens, steam ovens and grills - Methods for measuring Performance	18.11.2016
SFS-EN 60357/A11:en	Tungsten halogen lamps (non-vehicle) - Performance specifications	23.6.2016
SFS-EN 60384-1:en	Fixed capacitors for use in electronic equipment - Part 1: Generic specification	14.10.2016
SFS-EN 60384-3:en	Fixed capacitors for use in electronic equipment - Part 3: Sectional specification - Surface mount fixed tantalum electrolytic capacitors with solid (MnO ₂) electrolyte	28.10.2016
SFS-EN 60384-4:en	Fixed capacitors for use in electronic equipment - Part 4: Sectional specification - Fixed aluminium electrolytic capacitors with solid (MnO ₂) and non-solid electrolyte	11.11.2016

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SFS-EN 62047-26:en	Semiconductor devices - Micro-electromechanical devices - Part 26: Description and measurement methods for micro trench and needle structures	6.5.2016

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SFS-EN 62052-31:en	Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 31: Product safety requirements and tests	1.7.2016
SFS-EN 62056-4-7:en	Electricity metering data exchange - The DLMS/COSEM suite - Part 4-7: DLMS/COSEM transport layer for IP networks	23.12.2016
SFS-EN 62056-5-3:en	Electricity metering data exchange - The DLMS/COSEM suite - Part 5-3: DLMS/COSEM application layer	23.12.2016
SFS-EN 62056-6-1:en	Electricity metering data exchange - The DLMS/COSEM suite - Part 6-1: Object Identification System (OBIS)	23.12.2016
SFS-EN 62056-6-2:en	Electricity metering data exchange - The DLMS/COSEM suite - Part 6-2: COSEM interface classes	23.12.2016
SFS-EN 62056-7-5:en	Electricity metering data exchange - The DLMS/COSEM suite - Part 7-5: Local data transmission profiles for Local Networks (LN)	23.12.2016
SFS-EN 62077:en	Fibre optic interconnecting devices and passive components - Fibre optic circulators - Generic specification	26.2.2016
SFS-EN 62087-1:en	Audio, video, and related equipment - Determination of power consumption - Part 1: General	4.3.2016
SFS-EN 62087-2:en	Audio, video, and related equipment - Determination of power consumption - Part 2: Signals and media	22.1.2016
SFS-EN 62087-3:en	Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets	4.3.2016
SFS-EN 62087-4:en	Audio, video and related equipment - Determination of power consumption - Part 4: Video recording equipment	4.3.2016
SFS-EN 62087-5:en	Audio, video and related equipment - Determination of power consumption - Part 5: Set top boxes (STB)	4.3.2016
SFS-EN 62108:en	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	30.12.2016
SFS-EN 62129-1:en	Calibration of wavelength/optical frequency measurement instruments - Part 1: Optical spectrum analyzers	17.6.2016
SFS-EN 62132-1:en	Integrated circuits - Measurement of electromagnetic immunity - Part 1: General conditions and definitions	11.3.2016
SFS-EN 62146-1/A1:en	Grading capacitors for high-voltage alternating current circuit-breakers - Part 1: General	11.11.2016
SFS-EN 62153-4-7:en	Metallic communication cable test methods - Part 4-7: Electromagnetic compatibility (EMC) - Test method for measuring of transfer impedance ZT and screening attenuation as or coupling attenuation ac of connectors and assemblies up to and above 3 GHz - Triaxial tube in tube method	1.4.2016
SFS-EN 62209-1:en	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)	18.11.2016
SFS-EN 62231-1:en	Composite station post insulators for substations with AC voltages greater than 1 000 V up to 245 kV - Part 1: Dimensional, mechanical and electrical characteristics	22.1.2016
SFS-EN 62264-4:en	Enterprise-control system integration - Part 4: Object model attributes for manufacturing operations management integration	22.4.2016
SFS-EN 62264-5:en	Enterprise-control system integration - Part 5: Business to manufacturing transactions	9.12.2016
SFS-EN 62276:en	Single crystal wafers for surface acoustic wave (SAW) device applications - Specifications and measuring methods	23.12.2016
SFS-EN 62282-3-200:en	Fuel cell technologies - Part 3-200: Stationary fuel cell power systems - Performance test methods	24.3.2016

SFS-tunnus	Otsikko	Vahvistus-/ julkaisupvm.
SFS-EN 62317-6:en	Ferrite cores - Dimensions - Part 6: ETD-cores for use in power supplies	1.4.2016
SFS-EN 62317-11:en	Ferrite cores - Dimensions - Part 11: EC-cores for use in power supply applications	11.3.2016
SFS-EN 62317-12:en	Ferrite cores - Dimensions - Part 12: Ring cores	9.12.2016
SFS-EN 62325-351:en	Framework for energy market communications - Part 351: CIM European market model exchange profile	7.10.2016
SFS-EN 62325-451-6:en	Framework for energy market communications - Part 451-6: Publication of information on market, contextual and assembly models for European style market	30.9.2016
SFS-EN 62326-20:en	Printed boards - Part 20: Printed circuit boards for high-brightness LEDs	27.5.2016
SFS-EN 62343-1:en	Dynamic modules - Part 1: Performance standards - General conditions	5.8.2016
SFS-EN 62343-3-1:en	Dynamic modules - Part 3-1: Performance specification templates - Dynamic channel equalizers	12.8.2016
SFS-EN 62343-3-2:en	Dynamic modules - Part 3-2: Performance specification templates - Optical channel monitor	5.8.2016
SFS-EN 62343-4-1:en	Dynamic modules - Part 4-1: Software and hardware interface - 1 x 9 wavelength selective switch	3.6.2016
SFS-EN 62361-100:en	Power systems management and associated information exchange - Interoperability in the long term - Part 100: CIM profiles to XML schema mapping	7.10.2016
SFS-EN 62387:en	Radiation protection instrumentation - Passive integrating dosimetry systems for individual, workplace and environmental monitoring of photon and beta radiation	19.2.2016
SFS-EN 62391-1:en	Fixed electric double-layer capacitors for use in electric and electronic equipment - Part 1: Generic specification	4.3.2016
SFS-EN 62424:en	Representation of process control engineering - Requests in P&ID diagrams and data exchange between P&ID tools and PCE-CAE tools	25.11.2016
SFS-EN 62433-4:en	EMC IC modelling - Part 4: Models of integrated circuits for RF immunity behavioural simulation - Conducted immunity modelling (ICIM-CI)	4.11.2016
SFS-EN 62446-1:en	Photovoltaic (PV) systems - Requirements for testing, documentation and maintenance - Part 1: Grid connected systems - Documentation, commissioning tests and inspection	22.4.2016
SFS-EN 62533:en	Radiation protection instrumentation - Highly sensitive hand-held instruments for photon detection of radioactive material	11.3.2016
SFS-EN 62563-1/A1:en	Medical electrical equipment - Medical image display systems - Part 1: Evaluation methods	17.6.2016
SFS-EN 62572-3:en	Fibre optic active components and devices - Reliability standards - Part 3: Laser modules used for telecommunication	17.6.2016
SFS-EN 62575-1:en	Radio frequency (RF) bulk acoustic wave (BAW) filters of assessed quality - Part 1: Generic specification	4.3.2016
SFS-EN 62580-1:en	Electronic railway equipment - On-board multimedia and telematic subsystems for railways - Part 1: General architecture	25.11.2016
SFS-EN 62591:en	Industrial communication networks - Wireless communication network and communication profiles - WirelessHART™	30.9.2016
SFS-EN 62601:en	Industrial networks - Wireless communication network and communication profiles - WIA-PA	22.4.2016
SFS-EN 62605:en	Multimedia systems and equipment - Multimedia e-publishing and e-books - Interchange format for e-dictionaries	2.12.2016

SFS-tunnus	Otsikko	Vahvistus-/ julkaisupvm.
SFS-EN 62610-5:en	Mechanical structures for electrical and electronic equipment - Thermal management for cabinets in accordance with IEC 60297 and IEC 60917 series - Part 5: Cooling performance evaluation for indoor cabinets	5.8.2016
SFS-EN 62618:en	Radiation protection instrumentation - Spectroscopy-based alarming Personal Radiation Detectors (SPRD) for the detection of illicit trafficking of radioactive material	4.11.2016
SFS-EN 62621:en	Railway applications - Fixed installations - Electric traction - Specific requirements for composite insulators used for overhead contact line systems	11.3.2016
SFS-EN 62621/A1:en	Railway applications - Fixed installations - Electric traction - Specific requirements for composite insulators used for overhead contact line systems	25.11.2016
SFS-EN 62625-2:en	Electronic railway equipment - On board driving data recording system - Part 2: Conformity testing	23.9.2016
SFS-EN 62631-3-1:en	Dielectric and resistive properties of solid insulating materials - Part 3-1: Determination of resistive properties (DC methods) - Volume resistance and volume resistivity - General method	5.8.2016
SFS-EN 62631-3-2:en	Dielectric and resistive properties of solid insulating materials - Part 3-2: Determination of resistive properties (DC Methods) - Surface resistance and surface resistivity	11.3.2016
SFS-EN 62631-3-3:en	Dielectric and resistive properties of solid insulating materials - Part 3-3: Determination of resistive properties (DC Methods) - Insulation resistance	24.3.2016
SFS-EN 62660-3:en	Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 3: Safety requirements	2.12.2016
SFS-EN 62665:en	Multimedia systems and equipment - Multimedia e-publishing and e-books technologies - Texture map for auditory presentation of printed texts	24.3.2016
SFS-EN 62680-1-3:en	Universal serial bus interfaces for data and power - Part 1-3: Universal Serial Bus interfaces - Common components - USB Type-CTM cable and connector specification	9.12.2016
SFS-EN 62689-1:en	Current and voltage sensors or detectors, to be used for fault passage indication purposes - Part 1: General principles and requirements	30.12.2016
SFS-EN 62694:en	Radiation protection instrumentation - Backpack-type radiation detector (BRD) for the detection of illicit trafficking of radioactive material	4.11.2016
SFS-EN 62702-1-1:en	Audio Archive System - Part 1-1: DVD disk and data migration for long term audio data storage	5.8.2016
SFS-EN 62718:en	Railway applications - Rolling stock - DC supplied electronic ballasts for lighting fluorescent lamps	22.4.2016
SFS-EN 62722-1:en	Luminaire performance - Part 1: General requirements	22.1.2016
SFS-EN 62722-2-1:en	Luminaire performance - Part 2-1: Particular requirements for LED luminaires	13.5.2016
SFS-EN 62739-2:en	Test method for erosion of wave soldering equipment using molten lead-free solder alloy - Part 2: Erosion test method for metal materials with surface processing	21.10.2016
SFS-EN 62752:en	In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)	2.9.2016
SFS-EN 62760:en	Audio reproduction method for normalized loudness level	23.6.2016
SFS-EN 62772:en	Composite Hollow Core Station Post Insulators for substations with a.c. voltage greater than 1000 V and d.c. voltage greater than 1500V- Definitions, test methods and acceptance criteria	2.12.2016
SFS-EN 62777:en	Quality evaluation method for the sound field of directional loudspeaker array system	23.6.2016

SFS-tunnus	Otsikko	Vahvistus-/ julkaisupvm.
SFS-EN 62779-1:en	Semiconductor devices - Semiconductor interface for human body communication - Part 1: General requirements	17.6.2016
SFS-EN 62779-2:en	Semiconductor devices - Semiconductor interface for human body communication - Part 2: Characterization of interfacing performances	10.6.2016
SFS-EN 62779-3:en	Semiconductor devices - Semiconductor interface for human body communication - Part 3: Functional type and its operational conditions	23.6.2016
SFS-EN 62788-1-2:en	Measurement procedures for materials used in photovoltaic modules - Part 1-2: Encapsulants - Measurement of volume resistivity of photovoltaic encapsulants and other polymeric materials	5.8.2016
SFS-EN 62788-1-4:en	Measurement procedures for materials used in photovoltaic modules - Part 1-4: Encapsulants - Measurement of optical transmittance and calculation of the solar-weighted photon transmittance, yellowness index, and UV cut-off wavelength	30.12.2016
SFS-EN 62788-1-5:en	Measurement procedures for materials used in photovoltaic modules - Part 1-5: Encapsulants - Measurement of change in linear dimensions of sheet encapsulation material resulting from applied thermal conditions	23.12.2016
SFS-EN 62803:en	Transmitting equipment for radiocommunication - Frequency response of optical-to-electric conversion device in high-frequency radio over fibre systems - Measurement method	28.10.2016
SFS-EN 62808:en	Nuclear power plants - Instrumentation and control systems important to safety - Design and qualification of isolation devices	30.9.2016
SFS-EN 62820-1-1:en	Building intercom systems - Part 1-1: System requirements - General	2.12.2016
SFS-EN 62822-2:en	Electric welding equipment - Assessment of restrictions related to human exposure to electromagnetic fields (0 Hz to 300 GHz) - Part 2: Arc welding equipment	30.9.2016
SFS-EN 62827-1:en	Wireless Power Transfer - Management - Part 1: Common Components	2.12.2016
SFS-EN 62838:en	LEDsi lamps for general lighting services with supply voltages not exceeding 50 V a.c. r.m.s. or 120 V ripple free d.c. - Safety specifications	29.1.2016
SFS-EN 62841-2-8:en	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-8: Particular requirements for hand-held shears and nibblers	21.10.2016
SFS-EN 62841-2-11:en	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-11: Particular requirements for hand-held reciprocating saws	29.4.2016
SFS-EN 62841-3-4:en	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-4: Particular requirements for transportable bench grinders	5.8.2016
SFS-EN 62849:en	Performance evaluation methods of mobile household robots	23.12.2016
SFS-EN 62864-1:en	Railway applications - Rolling stock - Power supply with onboard energy storage system - Part 1: Series hybrid system	18.11.2016
SFS-EN 62877-1:en	Electrolyte and water for vented lead acid accumulators - Part 1: Requirements for electrolyte	3.6.2016
SFS-EN 62877-2:en	Electrolyte and water for vented lead acid accumulators - Part 2: Requirements for water	3.6.2016
SFS-EN 62911:en	Audio, video and information technology equipment - Routine electrical safety testing in production	22.4.2016
SFS-EN 62952-1:en	Power sources for a wireless communication device - Part 1: General requirements of power modules	16.12.2016
SFS-EN 62952-2:en	Power sources for a wireless communication device - Part 2: Profile for power modules with batteries	16.12.2016

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SFS-EN 80601-2-35/ A1:en	Medical electrical equipment - Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use	30.12.2016
SFS-EN 140402/ A1:en	Blank Detail Specification: Fixed low power wirewound surface mount (SMD) resistors	30.12.2016
SFS-EN ISO 11145:en	Optics and photonics. Lasers and laser-related equipment. Vocabulary and symbols (ISO 11145:2016)	8.4.2016
SFS-EN ISO 14880- 1:en	Optics and photonics. Microlens arrays. Part 1: Vocabulary and general properties (ISO 14880-1:2016)	26.8.2016
SFS-EN ISO/IEC 13273-1:en	Energy efficiency and renewable energy sources. Common international terminology. Part 1: Energy efficiency (ISO/IEC 13273-1:2015)	18.3.2016
SFS-EN ISO/IEC 13273-2:en	Energy efficiency and renewable energy sources. Common international terminology. Part 2: Renewable energy sources (ISO/IEC 13273-2:2015)	18.3.2016
SFS-käsikirjat		
SFS-KÄSIKIRJA 603	Ilmajohtostandardit	22.1.2016
SFS-KÄSIKIRJA 640	Sähkökeskukset	22.1.2016
SFS-KÄSIKIRJA 601:sv	Högspänningselintallationer och luftledningar	18.3.2016

SESKOn komiteoissa standardoidaan jo tulevaa teknologiaa

Sähkötekniisellä standardoinnilla on pitkät perinteet. Kansainvälinen sähköalan standardointijärjestö IEC (International Electrotechnical Commission) on perustettu jo vuonna 1906. Aluksi valmisteltiin horisontaalisia standardeja sanastoista ja dokumenteista sekä laitestandardeja mm. pyörivistä koneista, muuntajista ja johtimista. Myöhemmin repertuaari on laajentunut mitä moninaisimpiin laitteisiin ja järjestelmiin.

IEC, CENELEC ja SESKO

Sähköalan standardointi perustuu kansainväliseen yhteistyöhön, jonka tulokset julkaistaan IEC-standardeina. Valtaosa niistä otetaan käyttöön Euroopassa CENELECin (European Committee for Electrotechnical Standardization) toimesta. Suomalaiset sähköalan standardit perustuvat IEC:n ja CENELECin julkaisuihin. Laitestandardit ovat SFS-EN-standardeja ja ne ovat täysin identtisiä koko CENELECin alueella. Asennusstandardeja joudutaan sen sijaan hiukan soveltamaan eri maissa.

Standardointi luo yhteisiä pelisääntöjä

Oikeat termit ja yksiselitteiset dokumentit tarvitaan, jotta työt etenevät silloinkin, kun projektissa on mukana monta tekijää. SESKOn komiteoissa SK 1 ja SK 3 työstehtään näitä asioita. Sähkö- ja elektroniikkalaitteiden koko toimitusketju komponenttivalmistajista kauppiasiin hyötyy materiaalilostestandardeista. Ympäristövaikutukset ja energiatehokkuusasiat kuuluvat SESKOn komitealle SK 111. Rakennusten hälytysjärjestelmiä ja elektroniikkajärjestelmiä kannattaa rakentaa vain standardien mukaisina. Näin ne voidaan pitää kunnossa myös tulevaisuudessa. Standardoitu yleiskaapelointi on nykyaikaisen kiinteistön hermoverkko. Se on komitean SK 215 työaluetta.

Suomalaiset, kilpailukykyiset tuotteet

Älykkäät sähköverkot on yksi keskeisimmistä sähkötekniikan standardoinnin painopistealueista. SESKOn Smart Grid –asioista vastaava komitea SK 8 tunnistaa suomalaisen elinkeinoelämän kannalta oleelliset projektit teollisuutemme kilpailukykyyn varmistamiseksi. Tehoelektronikan alalla on merkittävää suomalaista osaamista, jonka kokoa komitea SK 22. Asiantuntijoiden tukena ovat tehoelektronikan turvallisuusstandardi, taajuusmuuttajien energiatehokkuusstandardi ja häiriöstandardit.

Turvallisuus, turvallisuus ja turvallisuus

Kansainvälisillä ja eurooppalaisilla standardeilla on jo pitkään varmistettu turvallisuutta. Standardeja on käytetty vaatimustenmukaisuuden varmistamiseen jo ennen kuin oli olemassa pienjännite- tai muita sähköalan direktiivejä. Vanhastaan sähkölaitteiden

turvallisuus ennakkotarkastettiin IEC-standardien pohjalta. Myös asennuksia koskevat standardit ovat nyt vakiinnuttaneet asemansa. Räjähdyksivaarallisten tilojen ja laitteiden standardit ovat samoja kaikkialla. Monet johtavat suomalaisyritykset ovat mukana SESKOn komiteassa SK 31 niitä kehittämässä. Pienjännitesähköasennusten standardit, joiden valmistelussa on mukana SESKOn komitea SK 64, ovat perustana sähköasennusten turvallisuusvaatimuksille lähes koko maailmassa.

Automaation systematisointi

Automaatiostandardeilla luodaan teollisuusprosessien turvallisuuden ja toimivuuden pohja. Standardit parantavat automaatiojärjestelmien yhteensopivuutta ja yhteistoimintaa sekä antavat hyödyllisiä tietoja nykyaikaisen prosessiautomaation menetelmiksi. Tästä seuraa eri valmistajien tuotteiden ja ratkaisujen helpompi kuvailtavuus, vertailu ja arviointi. Standardit systematisoivat alueen käytäntöjä.

Luotettavuus

Laite- ja EMC-komiteoiden valmistelemien standardien ansiosta voidaan luottaa siihen, että kodinkoneet ovat turvallisia ja toimivat luotettavasti. Pesukone pesee ja radio kuuluu häiriöttä. Erilaisten kotitaloussähkölaitteiden turvallisuusvaatimukset, energiatehokkuus ja suorituskyky testataan kodeissa päivittäin. Vain standardien avulla voidaan hallita sähkömagneettisten häiriöiden päästö- ja sietovaatimuksia.

Tiellä valoisaan tulevaisuuteen

Standardien ohjeistuksen avulla valmistajat parantavat ledituotteiden ja niiden liitännälaitteiden turvallisuutta ja suorituskykyä. Sähköautokin on sähkölaite. Suomalaiset vaikuttavat aktiivisesti latausjärjestelmien turvallisuusstandardeihin ja laativat niiden pohjalta suomalaisiin olosuhteisiin mukautetut suosikset esimerkiksi sähköautojen latausjärjestelmien toteuttamiseksi komiteassa SK 69. Myös uusiutuvat energianlähteet – aurinko, tuuli ja aallot – tarvitsevat standardeja. Ilmajohtojen merkitys kasvaa sähköntuotannon hajautuessa. Sähköenergian varastointistandardeissa tähdätään tuleviin tarpeisiin.

Tervetuloa mukaan toimintaan

Kerromme mielellämme lisää sähköalan standardeista ja mahdollisuuksista olla mukana niiden laadinnassa.

Ota yhteyttä puh. 09 696 391,
sähköposti: asiakaspalvelu@sesko.fi.
Käyntiosoite: Särkiniementie 3, 00210 Helsinki.
www.sesko.fi

Sähköalan standardien hankinta

IEC-standardit ja muut IEC-julkaisut

- IEC:n verkkokaupasta webstore.iec.ch
- Suomen Standardisoimisliitto SFS ry:n verkkokaupasta: www.sales.sfs.fi
- SFS:stä sähköpostitse sales@sfs.fi
- SFS:n asiakaspalvelusta (arkisin klo 8–16) p. 09 1499 3353.

SFS-EN-, SFS-IEC- ja SFS-standardit sekä SFS-käsikirjat ja CENELECin julkaisut

- Suomen Standardisoimisliitto SFS:stä.
Yhteystiedot edellä.

Mukaan komiteatyöskentelyyn?

SESKOn komiteoiden työhön osallistuminen on avointa kaikille. Komitean jäsenyys avaa mahdollisuuden vaikuttaa myös kansainvälisten IEC- ja eurooppalaisten EN-standardien sisältöön. Komiteajäsenyydestä peritään vuosittainen osallistumismaksu. Lisätietoa SESKOn verkkosivustolla <http://www.sesko.fi/osallistuminen>.

Lausuntopyynnöt

Kerran kuussa ilmestyvissä lausuntopyyntöluetteloissa esitetään kansallisella lausuntokierroksella olevat suomalaiset sähköalan standardiehdotukset.

http://www.sesko.fi/osallistuminen/ajankohtaiset_lausunnot_ja_aanestykset

Uudet vahvistetut ja julkaistut standardit

SESKO osallistuu sähköalan kansainväliseen (IEC) ja eurooppalaiseen (CENELEC) standardointiin Suomen edustajana ja saattaa nämä standardit Suomen kansallisiksi SFS-standardeiksi.

Uusien julkaistujen ja vahvistettujen SFS-, IEC- ja CENELECin EN-standardien nimet ja tunnukset löytyvät standardointijärjestöjen verkkosivuilta.



http://www.sfs.fi/aihealueet/sahko_ja_elektroniikka/julkaisut



<https://webstore.iec.ch/justpublished>



http://www.cenelec.eu/dyn/www/f?p=104:84:112800783479601:::FSP_LANG_ID:25

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