

The numbers of older IEC standards were converted in 1997 by adding 60000; for example IEC 27 became IEC 60027. IEC standards often have multiple sub-part documents; only the main title for the standard is listed here.

- [IEC 60027](#) Letter symbols to be used in electrical technology
- IEC 60028 International standard of resistance for copper
- [IEC 60034](#) Rotating electrical machinery
- [IEC 60038](#) IEC Standard Voltages
- IEC 60041 Field acceptance tests to determine the hydraulic performance of hydraulic turbines, storage pumps and pump-turbines
- IEC 60044 Instrument [transformers](#)
- IEC 60045 Steam turbines
- IEC 60050 International Electrotechnical Vocabulary
- IEC 60051 Recommendation for direct acting indicating analogue electric measuring instruments and their accessories
- IEC 60055 Paper-insulated metal-sheathed cables for rated voltages up to 18/30 kV
- IEC 60060 High-voltage test techniques
- [IEC 60062](#) Marking codes for resistors and capacitors
- [IEC 60063](#) [Preferred number](#) series for resistors and capacitors
- IEC 60061 Lamp caps and holders together with gauges for the control of interchangeability and safety
- IEC 60064 Tungsten filament type GLS (General Lighting Solutions) bulbs
- IEC 60065 Audio, video and similar electronic apparatus – Safety requirements
- IEC 60068 Environmental Testing
- IEC 60071 Insulation Co-ordination
- IEC 60073 Basic Safety principles for man-machine interface, marking and identification - coding principles for indicators and actuators
- IEC 60076 [Power transformers](#)
- IEC 60077 Railway applications - Electric equipment for rolling stock
- IEC 60079 [Explosive Atmospheres](#)
- IEC 60083 [Plugs and socket-outlets](#) for domestic and similar general use standardized in member countries of IEC
- IEC 60085 Electrical insulation
- IEC 60086 Primary [batteries](#)
- IEC 60092 Electrical installations on ships
- IEC 60094 Magnetic tape sound recording and reproducing systems
- IEC 60095 Lead-acid starter batteries
- IEC 60096 Radio-frequency cables
- IEC 60098 Rumble measurement on Vinyl Disc Turntables
- IEC 60099 Surge arresters
- IEC 60119 The Electrical Performance of Semiconductor Rectifiers (Metal Rectifiers)
- IEC 60134 Absolute maximum and design ratings of tube and semiconductor devices
- IEC 60137 Bushings for alternating voltages above 1000V
- IEC 60146 Semiconductor Converters
- IEC 60156 Dielectric Strength
- IEC 60169 Radio-frequency connectors

- IEC 60183 Guide to the selection of high voltage cables
- IEC 60193 Hydraulic turbines, storage pumps and pump-turbines - Model acceptance tests
- IEC 60204 Safety of machinery
- IEC 60214 On-load tap changers
- [IEC 60228](#) Conductors of insulated cables
- IEC 60233 Tests on Hollow Insulators for use in Electrical Equipment
- IEC 60238 Edison screw Lampholders
- IEC 60239 Graphite electrodes for electric arc furnaces – Dimensions and designation
- IEC 60245 Rubber-Insulated Cables
- IEC 60254 Lead-acid traction batteries
- IEC 60255 Electrical Relays
- IEC 60268 Sound system equipment
- [IEC 60269](#) Low voltage fuses
- IEC 60270 High-Voltage Test Techniques – Partial Discharge Measurements
- IEC 60273 Characteristics of indoor and outdoor post insulators for systems with nominal voltages greater than 1000V
- IEC 60287 Calculation of permissible current in cables at steady state rating
- IEC 60296 Mineral Insulating oils for transformers & switchgear
- [IEC 60297](#) Dimensions of mechanical structures of the 482.6 mm (19 in) series
- IEC 60298 high voltage switchgear in metallic enclosure
- IEC 60308 Hydraulic turbines - Testing of control systems
- [IEC 60309](#) Plugs, socket-outlets and couplers for industrial purposes
- IEC 60317 Specifications for particular types of winding wires
- [IEC 60320](#) Appliance couplers for household and similar general purposes
- IEC 60331 Tests for Electric Cables under Fire Conditions
- IEC 60332 Flame Retardant vs Fire Rate Cables
- IEC 60335 Safety of electrical household appliances
- [IEC 60364](#) Electrical installations of buildings
- IEC 60397 Test methods for batch furnaces with metallic heating resistors
- IEC 60398 Installations for electroheating and electromagnetic processing - General test methods
- IEC 60417 Graphical symbols for use on equipment
- IEC 60439 Low voltage switchgear and controlgear assemblies
- IEC 60445 Basic and safety principles for man-machine interface
- [IEC 60446](#) Wiring colours
- IEC 60457 Method of sampling insulating liquids
- IEC 60479 Effects of current on human beings and livestock
- IEC 60502 Power cables with extruded insulation and their accessories for rated voltages from 1kV up to 30kV
- IEC 60519 Safety in installations for electroheating and electromagnetic processing
- IEC 60529 Degrees of protection provided by enclosures ([IP Code](#))
- IEC 60539 Directly heated negative temperature coefficient thermistors
- IEC 60545 Guide for commissioning, operation and maintenance of hydraulic turbines
- IEC 60546 Controllers with analogue signals for use in industrial-process control systems
- IEC 60571 Electronic equipment used on rail vehicles

- IEC 60574 Audio-visual, video and television equipment and systems
- IEC 60598 Luminaires
- [IEC 60559](#) Binary [floating-point](#) arithmetic for microprocessor systems
- [IEC 60601](#) Medical Electrical Equipment
- IEC 60603 Connectors for frequencies below 3 MHz for use with printed boards
- IEC 60609 Hydraulic turbines, storage pumps and pump-turbines - Cavitation pitting evaluation
- IEC 60617 Graphical symbols for diagrams
- IEC 60651 Sound level meters
- IEC 60662 High-pressure sodium lamp - Performance specifications
- IEC 60664 Insulation coordination for equipment within low-voltage systems
- IEC 60669 Switches for household and similar fixed-electrical installations
- IEC 60676 Industrial electroheating equipment - Test methods for direct arc furnaces
- IEC 60680 Test methods of plasma equipment for electroheat and electrochemical applications
- IEC 60683 Test methods for submerged arc furnaces
- IEC 60688 Electrical measuring transducers for converting AC electrical quantities to analogue or digital signals
- IEC 60694 Common Specifications For High-Voltage Switchgear and Controlgear Standards
- IEC 60703 Test methods for electroheating installations with electron guns
- IEC 60708 Low-frequency cables with polyolefin insulation and moisture barrier polyolefin sheath
- IEC 60715 Dimensions of low-voltage switchgear and controlgear. Standardised mounting on rails for mechanical support of electrical devices in switchgear and controlgear installations.
- IEC 60721 Classification of environmental conditions
- IEC 60726 Dry type power transformers
- IEC 60728 Cable networks for television signals, sound signals and interactive services
- IEC 60730 Class B certification requirements for appliances.
- IEC 60747 Semiconductor devices; Part 1: General
- IEC 60748 Semiconductor devices – integrated circuits
- IEC 60760 Flat, quick-connect terminations (merged into IEC 61210:2010-08)
- IEC 60774 [VHS/S-VHS](#) video tape cassette system
- IEC 60793 [Optical fibres](#)
- IEC 60779 Test methods for electroslag remelting furnaces
- IEC 60801 EMI and RFI Immunity
- IEC 60805 Guide for commissioning, operation and maintenance of storage pumps and of pump-turbines operating as pumps
- IEC 60809 Filament lamps for road vehicles - Dimensional, electrical and luminous requirements
- IEC 60811 Common test methods for insulating and sheathing materials of electric cables and optical cables
- IEC 60812 International Standard on Fault Mode and Effects Analysis
- IEC 60815 Selection and dimensioning of high-voltage insulators intended for use in polluted conditions

- IEC 60825 [Laser safety](#)
- IEC 60826 Design criteria of [overhead transmission lines](#)
- IEC 60849 Sound Systems for Emergency Purposes
- IEC 60865 Short Circuit Current: Calculation of Effects
- [IEC 60870](#) Telecontrol equipment and systems
- IEC 60874 Connectors for optical fibres
- IEC 60884 Plugs and socket-outlets for household and similar purposes
- IEC 60898 Electrical accessories. [Circuit breakers](#) for overcurrent protection for household and similar installations.
- IEC 60904 Photovoltaic Devices (Part 1-10).
- IEC 60906 IEC system of plugs and socket-outlets for household and similar purposes
- [IEC 60908 Compact disk](#) digital audio system
- IEC 60909 Short-circuit currents in three-phase a.c. systems - Part 0: Calculation of currents
- IEC 60921 [Ballasts](#) for tubular [fluorescent lamps](#) – Performance requirements
- [IEC 60929](#) AC-supplied electronic [ballasts](#) for tubular [fluorescent lamps](#) – Performance requirements
- IEC 60942 Electroacoustics – Sound calibrators
- IEC 60945 Maritime Navigation and Radiocommunication Equipment and Systems – General Requirements – Methods of Testing and Required Test Results
- IEC 60947 Standards for low-voltage switchgear and controlgear
- IEC 60950 Safety of information technology equipment
- IEC 60958 Digital Audio Interface
- IEC 60994 Guide for field measurement of vibrations and pulsations in hydraulic machines (turbines, storage pumps and pump-turbines)
- IEC 61000 Electromagnetic compatibility (EMC)
- IEC 61008 Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)
- IEC 61009 Residual current operated circuit breakers with integral overcurrent protection for household and similar uses (RCBO's)
- IEC 61010 Safety requirements for electrical equipment for measurement, control and laboratory use
- IEC 61024 Protection of structures against lightning
- IEC 61025 [Fault tree analysis](#)
- [IEC 61030](#) Domestic Digital Bus - a standard for a low-speed [multi-master serial communication bus](#) for [home automation](#) applications.
- IEC 61043 [Sound intensity](#) meters with pairs of microphones
- IEC 61058 [Switches](#) for Appliances
- IEC 61084 Cable trunking and ducting systems for electrical installations
- IEC 61097 Global maritime distress and safety system (GMDSS)
- IEC 61116 Electromechanical equipment guide for small hydroelectric installations
- [IEC 61131 Programmable Logic Controllers](#)
- IEC 61149 Safety of mobile radios
- IEC 61156 Multicore and symmetrical pair/quid cables for digital communications
- [IEC 61158](#) Industrial communication networks – Fieldbus specifications

- [IEC 61162](#) Maritime navigation and radiocommunication equipment and systems, Digital Systems
- IEC 61164 Reliability growth – Statistical test and estimation methods
- IEC 61174 Maritime Navigation and Radio Communications, Electronic Chart Display and Information System (ECDIS)
- IEC 61194 Characteristic parameters of stand-alone photovoltaic (PV) systems
- IEC 61210 Connecting devices – [Flat quick-connect terminations](#) for electrical copper conductors – Safety requirements
- IEC 61211 Insulators of ceramic material or glass for overhead lines with a nominal voltage greater than 1 000 V - Impulse puncture testing in air
- IEC 61215 Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval
- IEC 61226 Nuclear power plants - Instrumentation and control important to safety - Classification of instrumentation and control functions
- IEC 61238 Compression and mechanical connectors for power cables for rated voltages up to 30 kV
- IEC 61241 Electrical apparatus for use in the presence of combustible dust
- IEC 61277 Terrestrial photovoltaic (PV) power generating systems – General and guide
- IEC 61280 Field testing method for measuring single mode fibre optic cable
- IEC 61286 Character set with electrotechnical symbols
- IEC 61307 Industrial microwave heating installations – Test methods for the determination of power output
- IEC 61308 High-frequency dielectric heating installations – Test methods for the determination of power output
- IEC 61326 Electrical equipment for measurement, control and laboratory use – EMC requirements
- [IEC 61334](#) Distribution automation using distribution line carrier systems - a standard for low-speed reliable [power line communications](#) by [electricity meters](#), [water meters](#) and [SCADA](#) ^[1]
- IEC 61345 UV test for photovoltaic (PV) modules
- [IEC 61346](#) Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations
- IEC 61347 Lamp Controlgear
- [IEC 61355](#) Classification and designation of documents for plants, systems and equipment
- IEC 61360 Common Data Dictionary
- IEC 61362 Guide to specification of hydraulic turbine control systems
- IEC 61363 Electrical installations of ships and mobile and fixed offshore units
- IEC 61364 Nomenclature for hydroelectric powerplant machinery
- IEC 61366 Hydraulic turbines, storage pumps and pump-turbines - Tendering Documents
- IEC 61378 Converter Transformers
- [IEC 61400](#) [Wind turbines](#)
- [IEC 61439](#) Low-Voltage switchgear and controlgear assemblies
- IEC 61467 Insulators for overhead lines - Insulator strings and sets for lines with a nominal voltage greater than 1 000 V - AC power arc tests
- [IEC 61499](#) Function blocks

- [IEC 61508](#) Functional safety of electrical/electronic/programmable electronic safety-related systems
- [IEC 61511](#) Functional safety – safety instrumented systems for the process industry sector
- IEC 61513 Functional safety – safety instrumented systems for the Nuclear Industries
- IEC 61523 Delay and Power Calculation Standards
- IEC 61537 Cable management – Cable tray systems and cable ladder systems
- IEC 61544 Panel-Mounted equipment - Electrical measuring instruments - Dimensions for panel mounting
- IEC 61557 Equipment for measuring electrical safety in low-voltage distribution systems
- IEC 61558 Safety of power transformers, power supplies, reactors and similar products
- IEC 61588 Precision clock synchronization protocol for networked measurement and control systems
- IEC 61603 Infrared transmission of audio or video signals
- IEC 61642 Industrial a.c. Networks Affected by Harmonics – Application of Filters and Shunt Capacitors
- IEC 61643 Surge protective devices connected to low-voltage power distribution systems
- IEC 61646 Thin-film terrestrial photovoltaic (PV) modules – Design qualification and type approval
- IEC 61672 Electroacoustics – Sound level meters
- IEC 61683 Procedure to Measure Efficiency
- IEC 61690 Electronic design interchange format, [EDIF](#)
- IEC 61701 Salt mist corrosion testing of photovoltaic (PV) modules
- IEC 61723 Safety Guidelines for grid connected photovoltaic Systems mounted on the building
- IEC 61724 Photovoltaic system performance monitoring – Guidelines for measurement
- IEC 61727 Photovoltaic (PV) systems – Characteristics of the utility interface
- IEC 61730 [Photovoltaic modules](#)
- IEC 61753 Fibre optic interconnecting devices and passive components performance standard
- IEC 61784 Industrial communication networks – Profiles
- IEC 61800 Adjustable speed electrical power drive systems
- IEC 61803 Determination of power losses in high-voltage direct current (HVDC) converter stations
- IEC 61829 Crystalline silicon photovoltaic (PV) array – On-site measurement of I-V characteristics
- IEC 61846 Ultrasonics – Pressure pulse lithotripters – Characteristics of fields
- [IEC 61850](#) Communication Networks and Systems in Substations
- [IEC 61883](#) Consumer audio/video equipment - Digital interface
- IEC 61892 Mobile and fixed offshore units, electrical installations
- IEC 61922 High-frequency induction heating installations – Test methods for the determination of power output of the generator
- IEC 61966 Multimedia systems -- [Colour](#) measurement
- [IEC 61968](#) Application integration at electric utilities – System interfaces for distribution management

- [IEC 61970](#) Application integration at electric utilities – Energy management system application program interface (EMS-API)
- IEC 61992 Railway applications - Fixed installations - DC switchgear
- IEC 61993 Maritime navigation and radiocommunication equipment and systems.
- IEC 62006 Hydraulic machines - Acceptance tests of small hydroelectric installations
- [IEC 62014-4](#) IP-XACT - Standard Structure for Packaging, Integrating, and Reusing IP within Tool Flows
- IEC 62040 Uninterruptible power systems
- IEC 62041 EMC requirements for power transformers, power supplies, reactors and similar products
- IEC 62052 Electricity metering equipment (AC) General requirements, tests and test conditions
- [IEC 62056](#) DLM/COSEM communication protocol for reading utility meters
- [IEC 62061](#) Safety of machinery: Functional safety of electrical, electronic and programmable electronic control systems
- IEC 62076:2006, Industrial electroheating installations – Test methods for induction channel and induction crucible furnaces
- IEC 62087 Methods of measurement for the power consumption of audio, video and related equipment
- IEC 62097 Hydraulic machines, radial and axial - Performance conversion method from model to prototype
- IEC 62107 [Super Video Compact Disc](#)
- IEC 62108 Concentrator photovoltaic (CPV) modules and assemblies – Design qualification and type approval
- IEC 62138 Nuclear Power Plants - Instrumentation and control important for safety - Software aspects for computer-based systems performing category B or C functions
- IEC/TR 62157 Cylindrical machined carbon electrodes – Nominal dimensions
- [IEC 62196](#) Plugs and sockets for charging [electric vehicles](#)
- IEC 62256 Hydraulic turbines, storage pumps and pump-turbines - Rehabilitation and performance improvement
- [IEC 62262](#) Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
- [IEC 62264](#) Enterprise-control system integration
- IEC 62265 [Advanced Library Format](#) (ALF) describing Integrated Circuit (IC) technology, cells and blocks
- IEC 62270 Hydroelectric power plant automation – Guide for computer-based control
- IEC 62271 Standards for high-voltage switchgear and controlgear
- IEC 62278 Railway applications – Specification and demonstration of reliability, availability, maintainability and safety (RAMS)
- IEC 62282 Fuel cell technologies
- IEC 62301 Household electrical appliances – Measurement of standby power
- [IEC 62304](#) Medical Device Software – Software Life Cycle Processes
- IEC 62305 Protection Against Lightning
- IEC 62325 Standards related to energy market models & communications
- [IEC 62351](#) Power System Control and Associated Communications – Data and Communication Security

- IEC 62353 Medical electrical equipment - Recurrent test and test after repair of medical electrical equipment
- IEC/TR 62357 Power system control and associated communications - Reference architecture for object models, services and protocols
- [IEC 62365](#) Digital audio – Digital input-output interfacing – Transmission of digital audio over asynchronous transfer mode (ATM) networks
- [IEC 62366](#) Medical devices – Application of usability engineering to medical devices
- [IEC 62379](#) Common control interface for networked digital audio and video products
- IEC 62386 Digital addressable lighting interface
- IEC 62388 Maritime Navigation and Radio Communications, Shipborne Radar
- IEC 62395 Electrical resistance trace heating systems for industrial and commercial applications
- IEC 62443 Industrial communication networks – Network and system security (DRAFT)
- IEC 62446 Grid connected photovoltaic systems – Minimum requirements for system documentation, commissioning tests and inspection
- [IEC 62455](#) Internet protocol (IP) and transport stream (TS) based service access
- IEC 62464 Magnetic resonance equipment for medical imaging
- IEC 62471 Photobiological safety of lamps and lamp systems
- IEC 62474 Material declaration for products of and for the electrotechnical industry
- IEC 62481 [Digital Living Network Alliance](#) (DLNA) home networked device interoperability guidelines
- IEC 62502 Analysis techniques for dependability – [Event tree analysis](#) (ETA)
- IEC 62531 [Property Specification Language](#) (PSL)
- IEC 62606 General requirements for arc fault detection devices
- [IEC 62680](#) [Universal Serial Bus](#) (USB) interfaces for data and power
- [IEC 62682](#) Management of alarm systems for the process industries
- IEC 62684 Interoperability specifications of [common external power supply](#) (EPS) for use with data-enabled mobile telephones
- IEC 62693 Industrial electroheating installations – Test methods for infrared electroheating installations
- [IEC 62700](#) DC Power supply for notebook computer
- IEC/TS 62796 Energy efficiency in electroheating installations
- IEC 62798 Industrial electroheating equipment – Test methods for infrared emitters
- IEC 80001 Application of risk management for IT-networks incorporating medical devices
- IEC 81346 Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations