

# Classification(US, IPC, ECLA, F-Term)

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## Classification

### US Classes

| US Class Code       | Definition   |
|---------------------|--|
| <a href="#">340</a> | Communications: Electrical   |
| 340506              | Digital comparator systems condition responsive indicating system / with particular system function (e.g., temperature compensation, calibration) / alarm system supervision   |
| 340870.02           | Communications: electrical / with meter reading  |
| <a href="#">700</a> | Data processing: generic control systems or specific applications  |
| 700291              | Data processing: generic control systems or specific applications / electrical power generation or distribution system / energy consumption or demand prediction or estimation   |
| 700292              | Electrical power generation or distribution system /System protection (e.g., circuit interrupter, circuit limiter, voltage suppressor)   |
| 700293              | Electrical power generation or distribution system /System protection (e.g., circuit interrupter, circuit limiter, voltage suppressor) /Abnormal power, current, or impedance condition  |
| 700294              | Electrical power generation or distribution system /System protection (e.g., circuit interrupter, circuit limiter, voltage suppressor) /Abnormal phase, waveform, or polarity condition  |
| 700295              | Data processing: generic control systems or specific applications / electrical power generation or distribution system / power allocation management (e.g., load adding/shedding)  |
| 700296              | Data processing: generic control systems or specific applications / electrical power generation or distribution system / power allocation management (e.g., load adding/shedding) - Time based control (e.g., real time or duty cycle) |
| 700297              | Electrical power generation or distribution system /Power supply regulation operation  |
| 700298              | Electrical power generation or distribution system /Power supply regulation operation /By voltage regulation   |
| 700299              | Specific application of temperature responsive control system  |
| 700300              | Data processing: generic control systems or specific applications / specific application of temperature responsive control system/ for heating or cooling  |
| <a href="#">702</a> | Data processing: measuring, calibrating, or testing  |
| 702057              | Measurement system in a specific environment / Electrical signal parameter measurement system  |
| 702060              | Electrical signal parameter measurement system / power parameter   |
| 702062              | Electrical signal parameter measurement system / power parameter / power logging (e.g., metering) / including communication means  |
| 702062              | Measurement system in a specific environment / electrical signal parameter measurement system: / power parameter /power logging (e.g., metering): / including communication means:   |
| 702127              | Data processing: measuring, calibrating, or testing / measurement system   |
| 702183              | data processing: measuring, calibrating, or testing / measurement system / performance or efficiency evaluation /diagnostic analysis   |
| 702188              | data processing: measuring, calibrating, or testing / measurement system / remote supervisory monitoring   |

### IPC classes

| IPC Class Code       | Definition  |
|----------------------|---|
| <a href="#">B60R</a> | Vehicles, vehicle fittings, or vehicle parts, not otherwise provided for  |
| B60R001602           | Electric or fluid circuits specially adapted for vehicles and not otherwise provided for; Arrangement of elements of electric or fluid circuits specially adapted for vehicles and not otherwise provided for / electric  |
| B60R001603           | Electric or fluid circuits specially adapted for vehicles and not otherwise provided for; Arrangement of elements of electric or fluid circuits specially adapted for vehicles and not otherwise provided for / electric for supply of electrical power to vehicle subsystems |

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| <a href="#">F24E</a> | Air-conditioning, air-humidification, ventilation, use of air currents for screening   |
| F24F001100           | Control or safety systems or apparatus   |
| <a href="#">G01R</a> | Measuring electric variables; measuring magnetic variables   |
| G01R001100           | Electromechanical arrangements for measuring time integral of electric power or current, e.g. of consumption (monitoring electric consumption of electrically-propelled vehicles)  |
| G01R002200           | Arrangements for measuring time integral of electric power or current, e.g. electricity meters (electromechanical arrangements therefor)   |
| <a href="#">G05B</a> | Control or regulating systems in general; functional elements of such systems; monitoring or testing arrangements for such systems or elements   |
| G05B001502           | Systems controlled by a computer/ electric   |
| G05B001904           | Systems controlled by a computer/ electric / Programme control other than numerical control, i.e. in sequence controllers or logic controllers   |
| G05B001907           | Systems controlled by a computer/ electric / Programme control other than numerical control, i.e. in sequence controllers or logic controllers / where the programme is defined in the fixed connection of electrical elements, e.g. potentiometers, counters, transistors |
| <a href="#">H02J</a> | Circuit arrangements or systems for supplying or distributing electric power; systems for storing electric energy  |
| H02J000314           | Circuit arrangements for ac mains or ac distribution networks / for adjusting voltage in ac networks by changing a characteristic of the network load / by switching loads on to, or off from, network, e.g. progressively balanced loading.                               |
| <a href="#">H04W</a> | Wireless communications networks   |
| H04W005200           | Power management, e.g. TPC [Transmission Power Control], power saving or power classes   |
| H04W005204           | TPC [Transmission power control]   |
| H04W005230           | using constraints in the total amount of available transmission power  |
| H04W005234           | TPC management, i.e. sharing limited amount of power among users or channels or data types, e.g. cell loading  |

#### ECLA classes

| ECLA Class Code      | Definition  |
|----------------------|---|
| <a href="#">H04L</a> | Data switching networks   |
| H04L001226M2B2       | Data switching networks / Details / Monitoring arrangements; Testing arrangements / Monitoring arrangements / processing of captured monitoring data / Report generation / for device related reporting   |
| H04L001226M3A2       | Data switching networks / Details / Monitoring arrangements; Testing arrangements / Monitoring arrangements / Monitoring using or based on specific metrics / based on availability / based on functioning  |
| H04L001228H3B        | Data switching networks / characterised by path configuration, e.g. LAN [Local Area Networks] or WAN [Wide Area Networks] / Home automation networks /Controlling appliance services of a home automation network by calling their functionalities / based on user interaction within the home                                  |
| <a href="#">H04N</a> | Pictorial communication, e.g. television  |
| H04N0005374A         | Transforming light or analogous information into electric information / using solid-state image sensors / SSIS architecture; Circuitry associated therewith / Addressed sensors, e.g. MOS or CMOS sensors / comprising control or output lines sharing a plurality of functions, e.g. output or driving or reset or power lines |

#### F-Term Classes

| F-Term Code | Definition   |
|-------------|--|
| 2F073EE16   | Arrangements for transmission of measured signals / Monitoring of reliability and electric sources / long-distance management of local power |
| 2G013       | Apparatuses for measuring time integral of electric power or current   |
| 2G026       | Power meters; power and power factor measurement; test and calibration   |
| 2G126       | Measuring of electric power, power factor, electric energy; test, calibration  |
| 3L030CC10   | Air conditioning controllers / Sensing parameters / power, current   |
| 3L060AA03   | Energy reduction, more efficiency  |
| 5B011FF03   | Configuration of power source and system/ Remote power supply control  |
| 5B011FF04   | Configuration of power source and system/ Remote power supply control /Network systems   |
| 5B011GG01   | Monitoring power source/ Monitoring ac power sources   |

|           |  |
|-----------|--|
| 5B011GG02 | Monitoring power source/ Monitoring dc power sources   |
| 5B011GG03 | Monitoring power source/ Monitoring dc power sources/ Monitoring voltages  |
| 5B011GG04 | Monitoring power source/ Monitoring dc power sources / Monitoring voltages /Direct monitoring by using voltage comparing means   |
| 5B011GG06 | Monitoring power source/ Monitoring dc power sources / Monitoring currents   |
| 5B011GG11 | Monitoring power source / Using simulated loads  |
| 5B011GG12 | Monitoring power source / Measuring power interrupted time or checking power failures  |
| 5B011GG13 | Monitoring power source/ Predicting power supply conditions  |
| 5B011GG16 | Monitoring power source/ Detecting failures of power supply arrangements   |
| 5B011GG17 | Monitoring power source / Testing or diagnosing power sources  |
| 5B011LL01 | Power saving, excluding automatic power cutoff / by preventing current leakage   |
| 5B011LL02 | Power saving, excluding automatic power cutoff / by controlling or selecting voltages  |
| 5B011LL05 | Power saving, excluding automatic power cutoff / by special structures   |
| 5B011LL06 | Power saving, excluding automatic power cutoff / by special structures / Power saving before starting to use   |
| 5B011LL10 | Power saving, excluding automatic power cutoff/ Power saving in backup power sources   |
| 5B011LL11 | Power saving, excluding automatic power cutoff / by switching to power saving modes  |
| 5B011LL12 | Power saving, excluding automatic power cutoff / by switching to power saving modes / by switching CPU modes   |
| 5B011LL14 | Power saving, excluding automatic power cutoff / by switching to power saving modes / by switching CPU modes / by switching the modes of peripheral devices                                  |
| 5B011LL15 | Power saving, excluding automatic power cutoff / by switching to power saving modes / by switching CPU modes / by switching the modes of peripheral devices / by changing display brightness |
| 5G062     | Electric energy storage systems  |
| 5G064     | Remote monitoring and control of power-distribution networks   |
| 5G064AA09 | Remote monitoring and control of power-distribution networks / Combined use of signal transmission lines with other lines / Combined use with alternating-current power lines                |
| 5K048HA31 | Components /Power supplies   |
| 5K048HA32 | Components /Power supplies /Remote supply of power supplies  |
| 5K048HA34 | Components /Power supplies /Monitor parts of power supplies  |
| 5K048HA35 | Components /Power supplies /Reserve power supplies   |
| 5K048HA39 | Components /Power supplies/ Solar cells  |

#### DWPI Classes

| DWPI Manualcodes | Definition  |
|------------------|---|
| U24-H04          | Power management techniques - Includes operation of a PSU to save/reduce battery energy dissipation and mains power. Operation measures may include switching off or operating in low power consumption mode, slowing of processor clock frequency, current/voltage control .                                       |
| U24-K            | PSU power-saving mode/operation - This code covers operation of a power supply unit within portable equipment to reduce battery dissipation.  |
| W05-D07A         | For home automation-Includes home bus systems. Heating, ventilating, air conditioning, water heater,lighting  |
| W05-D07C         | For building control - Includes systems for intelligent buildings.HVAC, heating, ventilating, air conditioning, environment control, computer, sensor interrogation, alarm.   |
| X12-H03A3        | Switching control for equipment connected to mains supply / Includes remotely generated signals to switch domestic equipment, e.g. air conditioner, fridge etc., on and off.  |
| X12-H04          | Utility load measurements   |
| X12-H04A         | Remote metering / Includes arrangements for obtaining meter readings from the customer premises-based meters. Customers, in this context, include domestic, commercial and industrial users.  |
| X12-H04C         | Individual transmission/distribution/mains - Includes current, voltage, power, energy, frequency, etc.meters, per se. Does not include meters not designed for the purpose of generation, ansmision/distribution. Where the meter has the facility to be interrogated by a central station or electricity provider. |

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| X12-H04D | Metering/measurement systems - Includes arrangements/circuitry for obtaining measures of voltage, current, etc for power systems.                            |
| X12-H04E | Other metering/measurement systems - Includes recording of transients, harmonics, over voltages/current data, line fault parameters, lightning strikes, etc. |
| X12-H09  | Other power supply/distribution aspects  |