

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

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## Classification

### US Classes

US Class Code	Definition
<u>340</u>	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
<u>700</u>	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
<u>702</u>	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
<u>B60R</u>	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

<u>F24F</u>	Air-conditioning, air-humidification, ventilation, use of air currents for screening
F24F001100	Control or safety systems or apparatus
<u>G01R</u>	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)
<u>G05B</u>	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
<u>H02J</u>	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.
<u>H04W</u>	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
<u>H04L</u>	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
<u>H04N</u>	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, anmission/distribution. Where the meter has the facility to be interrogated by a central station or electricity provider.

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