Global market access

Passport for appliances
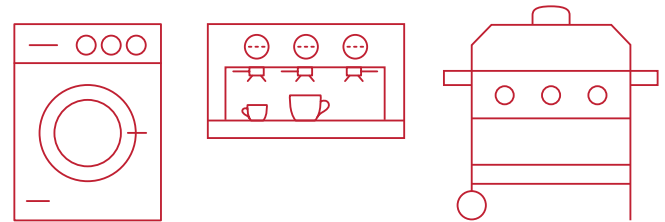
UL Solutions

Safety, quality and efficiency

Digitization and globalization have transformed today's consumers from local to global; anyone can access goods from almost anywhere. This represents an unprecedented opportunity for manufacturers but also a new challenge. As a manufacturer, you decide which global markets a new product is intended for long before its launch date, and you want to be sure it is safe as possible and meets the different local market requirements.
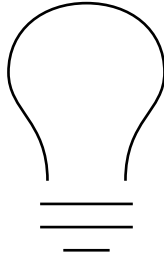
for local and global markets

However, a successful global market entry must be well-prepared, considering all applicable requirements and identifying and minimizing risks in the early stages of product development.
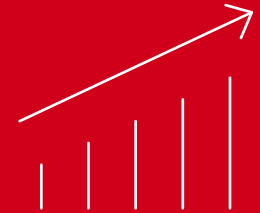
As a leading expert in safety science, we can provide to certification, testing and advisory services and training services for global market entry. But we can also help you streamline your testing and certification roadmap and gain access to markets in Europe, North America and Asia Pacific from a single local testing laboratory.

Bring safer products to multiple markets

The IECEE CB Scheme represents a vast, international arrangement established by the International Electrotechnical Commission (IEC). Its goal is the mutual acceptance of test reports among participating certification providers located in more than 50 countries around the world in the field of electrical and electronic products and components.

UL Solutions, a global safety science leader, is one of the largest and most active CB Scheme members, and we operate with four National Certification Bodies (NCBs) in different countries and over 50 CB Testing Laboratories (CBTLs) to provide local services with global coverage for our customers.

CB Scheme benefits

The CB Scheme helps product manufacturers and distributors engage in international trade by providing:

- A single source of product testing for safety, energy efficiency and electromagnetic compatibility (EMC) to access global markets.
- Wide acceptance of test reports leading to national certification in CB Scheme member countries.
- Unilateral acceptance of test reports in many developing countries that are not yet participating in the CB Scheme.

Wherever you go— we support your journey

Safety and performance

As the most-recognized appliances certifier in the U.S. and an issuer of CB certificates worldwide, **UL Solutions provides you with an essential differentiator in a crowded market, helping your customers identify high-quality products at a glance.** We will also keep you up to date on the latest market requirements based on where you intend to export your products, for example, safety or performance compliant to:

• IEC Standards (IECEE CB Scheme)
• European EN Standards (ENEC/ENEC+)
• U.S. and Canadian national standards (UL Mark for the U.S. and Canada)
• SASO mark (Saudi Standards, Metrology and Quality Organization)
• ECAS/EQM mark (Emirates Conformity Assessment Scheme/ Emirates Quality Mark)
• NOM mark (Norma Oficial Mexicana)
• Other applicable national or regional requirements

EMC, wireless and connected testing

We can help you navigate the EMC and wireless requirements mandatory for new products in many countries. Our team of experts also has the resources to conduct pre-compliance tests that could detect and resolve potential design flaws. Moreover, as appliances so often incorporate wireless technologies such as Bluetooth®, Wi-Fi and cellular connectivity (like 5G), testing that assesses the real-life performance and connectivity of products has become more complex.

Stay ahead of regulations that are continually evolving and keep pace with rapid advances in technology. The European UL Solutions laboratories have credentials for many Internet of Things (IoT) and wireless standards bodies, such as Bluetooth SIG, Thread Group, Zigbee and Matter.

Connecting you to the world

We help developers, engineers, quality managers and compliance professionals deliver safer, better reliability and more efficient appliances to markets in Europe, The Americas, Asia-Pacific and The Middle East.

On the following pages, we provide some basic information about trending markets to help you start your go-to-market strategy. However, we can assist you with access to many other countries. Take a look at our Global Market Access page and stay up-to-date with vital topics and trends. **www.UL.com/gma**

Trending markets

Mexico
United Kingdom
EU
Saudi Arabia
Egypt
UAE
China
Japan
South Korea
Malaysia
Singapore
Argentina
Australia
New Zealand

Technical terminology

CB	Certification Body. It refers to the IECEE CB Scheme
CCC	China Compulsory Certificate
CEL	China Energy Label
CGSR	Consumer Goods Safety Requirements
CoCA	Certificate of Conformity / Approval
COI	Pre-shipment Certificate of Inspection
CPSR	Consumer Protection Safety Regulations
EAC	Eurasian Conformity Mark
ECAS	Emirate Conformity Assessment Mark
EESL	Energy Efficiency Standards & Labeling Program
EQM	Emirates Quality Mark
ESG	Enterprise Singapore
GCM	Gas Compliance Mark
GEMS	Australia GEMS Energy Label
KC	Korea Certification
LPG	Liquefied Petroleum Gas
MELS	Mandatory Energy Labelling Scheme
MEPS	Minimum Energy Performance Standards
MSIP	Ministry of Science, ICT & Future Planning
NEA	National Environment Agency
NOM	Norma Oficial Mexicana
SASO	Saudi Standards, Metrology and Quality Organisation
SNG	Simulated Natural Gas
TLP	Tempered Liquefied Petroleum Gas

Argentina

General

House voltage	220 V
Tri-phase voltage	380 V
Frequency	50 Hz
Gas type, Gas nominal pressure	Natural Gas / LPG: 19–28 mbar
Rating label language	Spanish
Plug type(s)	Type I

Electrical safety

Mandatory certification	Argentina safety certificate
Certification validity	Scheme 4/5: No expiration date Scheme 7: per batch
Conformity marking on the product	Yes

Gas safety

Mandatory certification	ENARGAS Certificate
Certification validity	2 years
Conformity marking on the product	Yes

EMC

Mandatory certification	No
Certification validity	N/A
Conformity marking on the product	N/A

Energy efficiency

Mandatory certification	Mark of conformity (System No. 5) Energy efficiency certificate
Certification validity	No expiration date
Energy label (yes/no)	Yes

Other requirements

RoHS	No
Water efficiency	No

Australia

General

House voltage	230 V
Tri-phase voltage	400 V
Frequency	50 Hz
Gas type, Gas nominal pressure	Natural gas: 1.13 kPa Town gas: 0.75 kPa LPG: 2.75 kPa Simulated Natural Gas (SNG): 1.13 kPa Tempered liquefied petroleum gas (TLP): 0.75 kPa
Rating label language	English
Plug type(s)	Type I (with insulated pin)

Electrical safety

Mandatory certification	Certificate of conformity/approval (CoCA) – Mandatory for products classified risk level 3 products, or certificate of suitability – voluntary for products classified risk level 2 or 1
Certification validity	5 years
Conformity Marking on the product	Yes

Gas safety

Mandatory certification	Gas compliance mark (GCM) CoCA
Certification validity	5 years
Conformity marking on the product	Yes

EMC

Mandatory certification	Local supplier's declaration
Certification validity	N/A
Conformity marking on the product	Yes

Energy efficiency

Mandatory scheme	Australia GEMS energy label
Certification validity	N/A (Online registration by local supplier)
Energy label (yes/no)	Yes

Other requirements

RoHS	No
Water efficiency	Yes

* General overview only. Subject to change according to local authorities updated requirements.
  UL Solutions does not guarantee access to any market or that you will obtain any of the marks or certificates
  identified above.Mark and certificate requirements may vary from product to product. Please contact us for your
  specific product.

China

General

House voltage	220 V
Tri-phase voltage	380 V
Frequency	50 Hz
Gas type, Gas nominal pressure	Natural gas: 20 mbar LPG: 28 mbar Town gas: 10 mbar
Rating label language	Simplified chinese
Plug type(s)	A, I

Electrical safety

Mandatory certification	China compulsory certificate (CCC certification)
Certification validity	5 years
Conformity marking on the product	Yes

Gas safety

Mandatory certification	CCC
Certification validity	5 years
Conformity marking on the product	Yes

EMC

Mandatory certification	CCC
Certification validity	5 years
Conformity marking on the product	Yes

Energy efficiency

Mandatory scheme	China energy label (CEL)
Certification Validity	Renewal every year
Energy label (yes/no)	Yes

Other requirements

RoHS	Yes
Water efficiency	Yes

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Egypt

General

House voltage	220 V
Tri-phase voltage	380 V
Frequency	50 Hz
Gas type, Gas nominal pressure	Natural gas: 20 mbar LPG: 28-30 mbar
Rating label language	Arabic or english
Plug type(s)	C, F

Electrical safety

Mandatory certification	Pre-shipment certificate of inspection (CoI)
Certification validity	One shipment
Conformity marking on the product	N/A

Gas safety

Mandatory certification	CoI
Certification validity	One shipment
Conformity marking on the product	N/A

EMC

Mandatory certification	No
Certification validity	N/A
Conformity marking on the product	N/A

Energy efficiency

Mandatory scheme	Egypt energy efficiency labelling scheme
Certification validity	1 year
Energy label (yes/no)	Yes

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EU

General

House voltage	230 V
Tri-phase voltage	400 V
Frequency	50 Hz
Gas type, Gas nominal pressure	Natural Gas/LPG: 8-50 mbar, depends on different countries
Rating label language	Depends on country
Plug type(s)	Type C, E, F, K, depends on country

Electrical safety

Mandatory certification	Self-Declaration
Certification validity	N/A
Conformity marking on the product	Yes $C\epsilon$

Gas safety

Mandatory certification	EU Type-examination certificate + Type Inspection certificate
Certification validity	Valid for 10 years from the date of issue unless there are changes to the applicable standard requirements or to the products.
Conformity marking on the product	Yes $C\epsilon$2052

EMC

Mandatory certification	Self-declaration
Certification validity	N/A
Conformity marking on the product	N/A $C\epsilon$

Energy efficiency

Mandatory certification	Self-declaration
Certification validity	N/A
Energy label (yes/no)	Yes

Other requirements

RoHS	Yes

Japan

General

House voltage	100 V
Tri-phase voltage	200 V
Frequency	50 Hz (Eastern side), 60 Hz (Western side)
Gas type, Gas nominal pressure	Natural gas (mainstream is 13 A type): 10-25 mbar LPG: 23-33 mbar
Rating label language	Japanese
Plug type(s)	Type A, B

Electrical safety

Mandatory certification	Diamond PSE Certification, Circle PSE self-declaration
Certification validity	Diamond PSE: 3, 5 or 7 years; different by products Circle PSE: No expiration as no certificate is required
Conformity marking on the product	Yes

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Gas safety

Mandatory certification	Diamond PSTG gas: Certification, Circle PSTG gas: self-declaration Diamond PSLPG gas: mandatory, Circle PSLPG gas: self-declaration
Certification validity	5 years for diamond type only.
Conformity marking on the product	Yes

EMC

Mandatory certification	Diamond PSE Certification, Circle PSE self-declaration
Certification validity	Diamond PSE: 3, 5 or 7 years; different by products Circle PSE: No expiration as no certificate is required
Conformity marking on the product	Yes

Energy efficiency

Mandatory certification	Top runner program: self-declaration
Certification validity	No expiration as no certificate is required
Energy label (yes/no)	Yes

Other requirements

RoHS	Yes

Malaysia

General

House voltage	230 V
Tri-phase voltage	400 V
Frequency	50 Hz
Gas type, Gas nominal pressure	LPG G30-G31 mixture (>70% Butane) Natural gas (>92% Methane) manufacturer declaration as pressure will be regulated by a pressure regulator
Rating label language	Bahasa malaysia or english
Plug type(s)	Type C, G, M

Electrical safety

Mandatory certification	ST COA SIRIM label
Certification validity	ST COA: 1 year, annual renewal is required SIRIM PCS: 1 year
Conformity marking on the product	Yes

Gas safety

Mandatory certification	ST COA Gas SIRIM label
Certification validity	1 year, annual renewal is required SIRIM PCS: 1 year
Conformity marking on the product	Yes

EMC

Mandatory certification	N/A
Certification validity	N/A
Conformity marking on the product	N/A

Energy efficiency

Mandatory certification	ST COA EE
Certification validity	1 year, annual renewal is required
Energy label (yes/no)	Yes

Other requirements

RoHS	No
Water efficiency	Yes (Voluntary)

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 identified above. Mark and certificate requirements may vary from product to product. Please contact us for your
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Mexico

General

House voltage	127 V / 220 V
Tri-phase voltage	480 V
Frequency	60 Hz
Gas type, Gas nominal pressure	LPG: 2.75 kPa Natural gas: 1.76 kPa
Rating label language	Spanish
Plug type(s)	A, B

Electrical safety

Mandatory certification	Norma oficial mexicana (NOM)
Certification validity	From 1-3 years (depending on the product scheme)
Conformity marking on the product	Yes

Gas safety

Mandatory certification	NOM
Certification validity	From 1-3 Year (depending on the product scheme)
Conformity marking on the product	Yes

EMC

Mandatory certification	NOM (together with safety)
Certification validity	From 1-3 years (depending on the product scheme)
Conformity marking on the product	Yes

Energy efficiency

Mandatory scheme	Energy efficiency (NOM)
Certification validity	1-3 years (depending on the product scheme)
Energy label (yes/no)	Yes

Other requirements

RoHS	No
Water efficiency	Yes (Voluntary)

New Zealand

General

House voltage	230 V
Tri-phase voltage	400 V
Frequency	50 Hz
Gas type, Gas nominal pressure	Natural gas: described by NZS 5442, 1.13 kPa LPG: described by NZS 5435, 2.75 kPa
Rating label language	English
Plug type(s)	Type I (with insulated pins)

Electrical safety

Mandatory certification	Certificate of conformity/Approval (CoCA) - Mandatory for risk level 3 products
Certification validity	5 years
Conformity marking on the product	Yes

Gas safety

Mandatory certification	Gas compliance mark (GCM) Certificate of conformity
Certification validity	5 years
Conformity marking on the product	Yes

EMC

Mandatory certification	Local supplier's declaration
Certification validity	N/A
Conformity marking on the product	Yes

Energy efficiency

Mandatory certification	EECA Energy label and registration
Certification validity	Required registration every 5 years
Energy label (yes/no)	Yes

Other requirements

RoHS	No
Water efficiency	Yes

Saudi Arabia

General

House voltage	220 V / 230 V
Tri-phase voltage	380 V / 400 V
Frequency	60 Hz
Gas type, Gas nominal pressure	LPG: 50 mbar
Rating label language	Arabic and english
Plug type(s)	G

Electrical safety

Mandatory certification	SASO IECEE recognition certificate
Certification validity	1 year or 3 years
Conformity marking on the product	No conformity mark required
Mandatory certification	Gulf type examination scheme (G-Mark)
Certification validity	3 years
Conformity marking on the product	Yes
Mandatory certification	Certificate of conformity (SABER)
Certification validity	1 year
Conformity marking on the product	No conformity mark required

Gas safety

Mandatory certification	SASO Quality mark
Certification validity	3 years
Conformity marking on the product	Yes

EMC

Mandatory certification	G-Mark
Certification validity	3 years
Conformity marking on the product	Yes

Energy efficiency

Mandatory scheme	SASO Energy efficiency scheme
Certification validity	1 year for most products
Energy label (yes/no)	Yes

Other requirements

RoHS	Yes
Water efficiency	Yes

Singapore

General

House voltage	230V
Tri-phase voltage	400V
Frequency	50 Hz
Gas type, Gas nominal pressure	Town Gas: 6.17mbar to 31mbar LPG: 20-35mbar, 29 nominal
Rating label language	English
Plug type(s)	C, G, M

Electrical safety

Mandatory certification	ESG CPSR Singapore Safety Mark ESG CGSR (supplier self-compliance)
Certification validity	3 years for Singapore safety mark. No expiry for products under self-compliance
Conformity marking on the product	Yes, for products under singapore safety mark

Gas safety

Mandatory certification	ESG CPSR
Certification validity	3 years
Conformity marking on the product	Yes

EMC

Mandatory certification	No
Certification validity	N/A
Conformity marking on the product	N/A

Energy efficiency

Mandatory scheme	NEA MELS MEPS
Certification validity	3 years
Energy label (yes/no)	Yes

Other requirements

RoHS	Yes
Water efficiency	Yes

South Korea

General

House voltage	220 V
Tri-phase voltage	380 V
Frequency	60 Hz
Gas type, Gas nominal pressure	Natural Gas G20: 20 mbar LPG G30: 28 mbar
Rating label language	Korean
Plug type(s)	C, F

Electrical safety

Mandatory certification	KC Safety certification
certification validity	No expiry - maintenance activity required
Conformity marking on the product	Yes

Gas safety

Mandatory certification	KC Gas safety certificate
Certification validity	5 years
Conformity marking on the product	Yes

EMC

Mandatory certification	KC MSIP Registration certificate
Certification validity	N/A
Conformity marking on the product	Yes

Energy efficiency

Mandatory scheme	Korea MEPS labelling scheme E-Standby Program
Certification validity	N/A
Energy label (yes/no)	Yes

Other requirements

RoHS	Yes

UAE

General

House voltage	230 V
Tri-phase voltage	400 V
Frequency	50 Hz
Gas type, Gas nominal pressure	LPG G30: 28-30 mbar Natural gas: 20 mbar
Rating label language	Arabic or english
Plug type(s)	G

Electrical safety

Mandatory certification	Emirate conformity assessment mark (ECAS)
Certification validity	1 year
Conformity marking on the product	Yes
Mandatory certification	Emirate quality mark (EQM Voluntary)
Certification validity	3 years
Conformity marking on the product	Yes
Mandatory certification	G-Mark
Certification validity	3 years
Conformity marking on the product	Yes

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Gas safety

Mandatory certification	ECAS
Certification validity	1 year
Conformity marking on the product	Yes
Mandatory certification	EQM
Certification validity	3 years
Conformity marking on the product	Yes

EMC

Mandatory certification	G-Mark
Certification validity	3 years
Conformity marking on the product	Yes

Energy efficiency

Mandatory scheme	UAE energy efficiency standards & labelling (EESL)
Certification validity	1 year
Energy label (yes/no)	Yes

Other requirements

RoHS	Yes

United Kingdom

General

House voltage	230 V
Tri-phase voltage	400 V
Frequency	50 Hz
Gas type, Gas nominal pressure	LPG: 20-50 mbar
Rating label language	English
Plug type(s)	G

Electrical safety

Mandatory Certification	Self-declaration
Certification validity	N/A
Conformity marking on the product	Yes

Gas safety

Mandatory certification	Type-examination certificate + Type inspection certificate

Gas safety (continued)

Certification validity	Valid for 10 years from the date of issue unless there are changes to the applicable standard requirements or to the products.
Conformity marking on the product	Yes

EMC

Mandatory certification	Self-declaration
Certification validity	N/A
Conformity marking on the product	Yes

Energy efficiency

Mandatory scheme	Self-declaration
Certification validity	N/A
Energy label (yes/no)	Yes

Other requirements

RoHS	Yes

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Global Market Access

Let UL Solutions experts help you simplify your expansion into new markets

Do you want to stay competitive in the ever-changing regional and global marketplace—and are looking for a reliable, experienced partner for compliance and regulatory issues with solutions for trade challenges and market access? UL Solutions experts are ready to provide you with up-to-date, customized knowledge and guidance—helping you to:

• Perform comprehensive, in-depth regulatory analysis.
• Develop direct experience with access to foreign countries.
• Adapt products according to locally-specific national
  conditions and requirements.
• Reduce time to global markets through well-proven programs.
• Take advantage of bundled testing and certification services for
  all your target markets with only one product submission.

Review our Global Market Access Configurator to get an overview of some of the certifications that we can help you obtain.

UL-Certification.com

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