



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EUROFINS PRODUCT SERVICE (THAILAND) CO., LTD.
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ELECTRICAL

Valid To: December 31, 2027

Certificate Number: 2402.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, *as well as the one satellite location listed below*, to perform the following electromagnetic compatibility, energy efficiency, acoustics, and product safety tests:

<u>Test Technology:</u>	<u>Test Method(s)^{1,2:}</u>
Unintentional Emissions Radiated & Conducted	
U.S. (FCC)	
Unintentional Emissions	47 CFR, FCC Part 15, Subpart B (using ANSI C63.4-2014); ANSI C63.4-2014
Consumer ISM	47 CFR, FCC Part 18 (using MP-5:1986); MP-5:1986
International	
Unintentional Emissions	CISPR 11; EN 55011; EN IEC 55011; AS CISPR 11; J55011 (H27); CISPR 13; EN 55013; J55013 (H22); CISPR 14-1:2016; CISPR 14-1; AS/NZS CISPR 14.1; AS CISPR 14.1; EN 55014-1; EN IEC 55014-1; TCVN 7492-1; J55014-1(H27); GSO CISPR 14-1; CISPR 15; AS/NZS CISPR 15; AS CISPR 15; EN 55015; EN IEC 55015; J55015 (H20); CISPR 22; AS/NZS CISPR 22; EN 55022; J55022 (H22); CISPR 32; EN 55032; AS/NZS CISPR 32, EN 50561-1
Emissions	
Current Harmonics	IEC 61000-3-2; EN 61000-3-2; EN IEC 61000-3-2; AS/NZS 61000.3.2; GSO IEC 61000-3-2; EN 61000-3-12; IEC 61000-3-12
Voltage Fluctuations & Flicker	IEC 61000-3-3; EN 61000-3-3; AS/NZS 61000.3.3; GSO IEC 61000-3-3; EN 61000-3-11; EN IEC 61000-3-11

Test Technology:	Test Method(s)^{1,2}:
Immunity	
Product Specific Immunity	CISPR 14-2:2015; CISPR 14-2; EN IEC 55014-2; EN 55014-2; AS/NZS CISPR 14.2; TCVN 7492-2; CISPR 24; EN 55024; IEC 61547; EN 61547; EN IEC 61547; CISPR 35; EN 55035
Electrostatic Discharge (ESD)	EN 61000-4-2; IEC 61000-4-2; EN IEC 61000-4-2; GSO IEC 61000-4-2; IEC 61000-4-2:2008; ISO 10605:2008; ISO 10605:2023
Radiated Immunity	EN 61000-4-3; IEC 61000-4-3; EN IEC 61000-4-3; GSO IEC 61000-4-3; IEC 61000-4-3:2006; IEC 61000-4-20; EN 61000-4-20; EN IEC 61000-4-20; IEC 61000-4-20:2010
Electrical Fast Transient / Burst	EN 61000-4-4; IEC 61000-4-4; GSO IEC 61000-4-4; IEC 61000-4-4:2012
Surge Immunity	EN 61000-4-5; IEC 61000-4-5; GSO IEC 61000-4-5; IEC 61000-4-5:2014
Conducted Immunity	EN 61000-4-6; IEC 61000-4-6; EN IEC 61000-4-6; GSO IEC 61000-4-6; IEC 61000-4-6:2013
Power Frequency Magnetic Field Immunity	EN 61000-4-8; IEC 61000-4-8; GSO IEC 61000-4-8; IEC 61000-4-8:2009
Voltage Dips, Interruptions, and Line Voltage Variations	EN 61000-4-11; IEC 61000-4-11; EN IEC 61000-4-11; GSO IEC 61000-4-11; IEC 61000-4-11:2004; EN 61000-4-34; IEC 61000-4-34; IEC 61000-4-34:2005
Harmonics and Interharmonics	EN 61000-4-13; IEC 61000-4-13; IEC 61000-4-13:2002
Generic/Product Family Standards and Industry Standards	
Generic Standards	IEC 61000-6-1; EN 61000-6-1; EN IEC 61000-6-1; AS/NZS 61000.6.1; IEC 61000-6-2; EN 61000-6-2; EN IEC 61000-6-2; AS/NZS 61000.6.2; IEC 61000-6-3; EN 61000-6-3; EN IEC 61000-6-3; AS/NZS 61000.6.3; IEC 61000-6-4; EN 61000-6-4; EN IEC 61000-6-4; AS/NZS 61000.6.4
Emission and Immunity Testing in Transverse Electromagnetic (TEM) Waveguides	EN 61000-4-20; IEC 61000-4-20; EN IEC 61000-4-20; IEC 61000-4-20:2010
Electrical equipment for measurement, control, and laboratory use	IEC 61326-1; EN 61326-1; EN IEC 61326-1; IEC 61326-2-2; EN 61326-2-2; EN IEC 61326-2-2
EMC – Medical Equipment ¹	IEC 60601-1-2; EN 60601-1-2
Electromagnetic Fields (1 Hz to 10 MHz)	IEC 62233; EN 62233; EN 50366; IEC 62493; EN 62493; IEC 62311; EN 62311; EN IEC 62311

Test Technology:	Test Method(s)^{1,2}:
Electrical Product Safety	
HOUS (Household and similar electrical appliances)	
General Requirements	IEC 60335-1; EN 60335-1; EN IEC 60335-1; UL 60335-1; IEC 60335-1 Ed. 5.2; IEC 60335-1:2001; PNS IEC 60335-1:2011; ISO 10472-1; AS/NZS 60335.1
Vacuum cleaners and water-suction cleaning appliance	IEC 60335-2-2; EN 60335-2-2; EN IEC 60335-2-2
Electric irons	IEC 60335-2-3; EN 60335-2-3
Spin extractors	IEC 60335-2-4; EN 60335-2-4; EN IEC 60335-2-4; UL 2157; IEC 60335-2-4:2003; PNS IEC 60335-2-4:2018; AS/NZS 60335.2.4
Dishwashers	IEC 60335-2-5; EN 60335-2-5
Stationary cooking ranges, hobs, ovens, and similar appliances	IEC 60335-2-6; EN 60335-2-6
Washing machines	IEC 60335-2-7; EN 60335-2-7; EN IEC 60335-2-7; UL 2157; IEC 60335-2-7:2002; PNS IEC 60335-2-7:2021; ISO 10472-2; AS/NZS 60335.2.7
Shavers, hair clippers, and similar appliances	IEC 60335-2-8; EN 60335-2-8
Grills, toasters, and similar portable cooking appliances	IEC 60335-2-9; EN 60335-2-9; EN IEC 60335-2-9
Tumble dryers	IEC 60335-2-11; EN 60335-2-11; EN IEC 60335-2-11; ISO 10472-4; AS/NZS 60335.2.11
Warming plates and similar appliances	IEC 60335-2-12; EN 60335-2-12
Deep fat fryers, frying pans, and similar appliances	IEC 60335-2-13; EN 60335-2-13
Kitchen machines	IEC 60335-2-14; EN 60335-2-14; EN IEC 60335-2-14
Appliances for heating liquids	IEC 60335-2-15; EN 60335-2-15
Blankets, pads, clothing, and similar flexible heating appliances	IEC 60335-2-17; EN 60335-2-17
Storage water heaters	IEC 60335-2-21; EN 60335-2-21
Appliances for skin or hair care	IEC 60335-2-23; EN 60335-2-23; EN IEC 60335-2-23;
Refrigerating appliances, ice-cream appliances, and icemakers	IEC 60335-2-24; EN 60335-2-24; EN IEC 60335-2-24; UL 60335-2-24; IEC 60335-2-24:2002; PNS IEC 60335-2-24:2018; AS/NZS 60335.2.24
Clocks	IEC 60335-2-26; EN 60335-2-26
Battery chargers	IEC 60335-2-29; EN 60335-2-29
Room heaters	IEC 60335-2-30; EN 60335-2-30
Range hoods	IEC 60335-2-31; EN 60335-2-31
Massage appliances	IEC 60335-2-32; EN 60335-2-32; EN IEC 60335-2-32
Motor-compressors	IEC 60335-2-34; EN 60335-2-34; EN IEC 60335-2-34
Instantaneous water heaters	IEC 60335-2-35; EN 60335-2-35
Electrical heat pumps, air-conditioners, and dehumidifiers	IEC 60335-2-40; EN 60335-2-40; EN IEC 60335-2-40

Test Technology:	Test Method(s)^{1,2}:
Pumps	IEC 60335-2-41; EN 60335-2-41; EN IEC 60335-2-41; AS/NZS 60335.2.41
Ironers	IEC 60335-2-44; EN 60335-2-44; ISO 10472-5
Oral hygiene appliances	IEC 60335-2-52; EN 60335-2-52
Surface-cleaning appliances for household use employing liquids or steam	IEC 60335-2-54; EN 60335-2-54
Insect killers	IEC 60335-2-59; EN 60335-2-59
Air-cleaning appliances	IEC 60335-2-65; EN 60335-2-65
Portable immersion heaters	IEC 60335-2-74; EN 60335-2-74
Commercial dispensing appliances and vending machines	IEC 60335-2-75; EN 60335-2-75; EN IEC 60335-2-75
Outdoor barbecues	IEC 60335-2-78; EN 60335-2-78
Fans	IEC 60335-2-80; EN 60335-2-80; EN IEC 60335-2-80
Foot warmers and heating mats	IEC 60335-2-81; EN 60335-2-81; EN IEC 60335-2-81
Toilets	IEC 60335-2-84; EN 60335-2-84; EN IEC 60335-2-84
Humidifiers intended for use with heating, ventilation, or air-conditioning systems	IEC 60335-2-88; EN 60335-2-88
Commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	IEC 60335-2-89; EN 60335-2-89; EN IEC 60335-2-89; UL 60335-2-89
Humidifiers	IEC 60335-2-98; EN 60335-2-98
Vaporizers	IEC 60335-2-101; EN 60335-2-101
Furniture with electrically motorized parts	IEC 60335-2-116; EN IEC 60335-2-116; AS/NZS 60335.2.116
LITE (Luminaries)	
General requirements	IEC 60598-1; EN 60598-1; EN IEC 60598-1; IEC 60598-1 Ed. 8.1
Fixed general purpose luminaries	IEC 60598-2-1; EN 60598-2-1; EN IEC 60598-2-1
Recessed luminaires	IEC 60598-2-2; EN 60598-2-2; EN IEC 60598-2-2
Luminaires for road and street lighting	IEC 60598-2-3; EN 60598-2-3
Portable general-purpose luminaries	IEC 60598-2-4; EN 60598-2-4
Floodlights	IEC 60598-2-5; EN 60598-2-5
Portable luminaries for garden use	IEC 60598-2-7
Hand lamps	IEC 60598-2-8; EN 60598-2-8
Portable luminaries for children	IEC 60598-2-10; EN 60598-2-10
Luminaries for stage lighting, television film and photographic studios (outdoor and indoor)	IEC 60598-2-17; EN 60598-2-17; EN IEC 60598-2-17
Lighting chains	IEC 60598-2-20; EN 60598-2-20; EN IEC 60598-2-20
Luminaries for emergency lighting	IEC 60598-2-22; EN 60598-2-22; EN IEC 60598-2-22

Test Technology:	Test Method(s)^{1,2}:
Extra low-voltage lighting systems for filament lamps	IEC 60598-2-23; EN 60598-2-23; EN IEC 60598-2-23
Luminaires with limited surface temperatures	IEC 60598-2-24; EN 60598-2-24; EN IEC 60598-2-24
LED modules for general lighting	IEC 62031; EN 62031; EN IEC 62031
Single-capped fluorescent lamps	IEC 61199; EN 61199
Lamp Control gear: General requirements	IEC 61347-1; EN 61347-1; EN IEC 61347-1
Starting devices (other than glow starters)	IEC 61347-2-1; EN 61347-2-1; EN IEC 61347-2-1
A.C. and/or D.C. supplied electronic control gear for fluorescent lamps	IEC 61347-2-3; EN 61347-2-3; EN IEC 61347-2-3
D.C. or A.C. supplied electronic control gear for LED modules	IEC 61347-2-13; EN 61347-2-13; EN IEC 61347-2-13
Tungsten filament lamps for domestic and similar general lighting purposes	IEC 60432-1; EN 60432-1
Tungsten halogen lamps for domestic and similar general lighting purposes	IEC 60432-2; EN 60432-2
Tungsten-halogen lamps (non-vehicle)	IEC 60432-3; EN 60432-3
Self-ballasted LED-lamps for general lighting services	IEC 62560; EN 62560
Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications	IEC 62776; EN 62776; EN IEC 62776
TRON (Audio, video, and similar electronic apparatus)	
General requirements	IEC 60065; EN 60065
OFF (Information technology equipment)	
General requirements	IEC 60950-1; EN 60950-1
ITAV (Audio/video, information, and communication technology equipment)	
General requirements	IEC 62368-1; EN IEC 62368-1; UL 62368-1
SAFE (Transformers)	
General requirements	IEC 61558-1; EN 61558-1; EN IEC 61558-1
Separating transformers for general use	IEC 61558-2-1; EN 61558-2-1; EN IEC 61558-2-1
Control transformers	IEC 61558-2-2; EN 61558-2-2; EN IEC 61558-2-2
Isolating transformers for general use	IEC 61558-2-4; EN 61558-2-4; EN IEC 61558-2-4
Safety isolating transformers for general use	IEC 61558-2-6; EN 61558-2-6; EN IEC 61558-2-6
Bell and chime transformers	IEC 61558-2-8; EN 61558-2-8; EN IEC 61558-2-8
Transformers for class III hand lamps for tungsten filament lamps	IEC 61558-2-9; EN 61558-2-9; EN IEC 61558-2-9
Constant voltage transformers	IEC 61558-2-12; EN 61558-2-12; EN IEC 61558-2-12

Test Technology:	Test Method(s)^{1,2}:
Auto-transformers for general use	IEC 61558-2-13; EN 61558-2-13; EN IEC 61558-2-13
Transformers for switch mode power supplies	IEC 61558-2-16; EN 61558-2-16; EN IEC 61558-2-16
Energy Efficiency	
Refrigerating appliances	
Characteristics and test methods	ISO 15502; EN 153; ES 3794; IEC 62552; EN 62552; SASO IEC 62552/2007; JIS C 9801; JIS C 9607; JS 1749; SANS 62552; SANS 1691; IS 15750; PNS IEC 62552
General requirements	IEC 62552-1; EN 62552-1; GSO IEC 62552-1; MS IEC 62552-1; AS/NZS IEC 62552.1; KS IEC 62552-1; PNS IEC 62552-1; IS 17550-1; OS GSO IEC 62552-1; GS IEC 62552-1; UAE.S GSO IEC 62552-1
Performance requirements	IEC 62552-2; EN 62552-2; GSO IEC 62552-2; MS IEC 62552-2; AS/NZS IEC 62552.2; KS IEC 62552-2; PNS IEC 62552-2; IS 17550-2; OS GSO IEC 62552-2; GS IEC 62552-2; UAE.S GSO IEC 62552-2
Energy consumption and volume	IEC 62552-3; EN 62552-3; GSO IEC 62552-3; MS IEC 62552-3; AS/NZS IEC 62552.3; KS IEC 62552-3; PNS IEC 62552-3; IS 17550-3; OS GSO IEC 62552-3; GS IEC 62552-3; UAE.S GSO IEC 62552-3
<u>Country specific requirements</u>	
Saudi Arabia	SASO 2664/2007; SASO 2664/2013; SASO 2892/2018
Oman	OS 1653/2022
Kuwait	KWS 1900:2023
Australia / New Zealand	AS/NZS 4474; AS/NZS 4474.1; AS/NZS 4474.2
Singapore	IEC 62552-1:2015+A1:2020; IEC 62552-3:2015+A1:2020
Philippines	PNS 396-2:1997; PNS 396-2:2013
Kenya	KS 2464-2
Taiwan	CNS 2062
UAE	UAE.S IEC 62552; UAE.S.5010-3
Jordan	JS 2101; JS 2102
Ghana	L.I. 2441:2022
US	10 CFR 430, Subpart B, Appendix A; AHAM HRF-1-2019
Washing machines	
General requirements	IEC 60456; EN 60456; ES 4100; SASO 2683/2007; JIS C 9811; JIS C 9606; IS 14155; MS IEC 60456; PNS IEC 60456:2013
<u>Country specific requirements</u>	
Saudi Arabia	SASO 2692/2007; SASO 2692/2013; SASO 2693/2007; SASO 2885/2018; SASO 2772/2009; SASO 2772/2016; SASO 2883/2017
Oman	OS 1651/2022
Kuwait	KWS 1899:2023

<u>Test Technology:</u>	<u>Test Method(s)^{1,2:}</u>
Philippines	PNS 396-3:2013
Malaysia	SPAN TS 3006:2021
Australia	AS/NZS 2040.1; AS/NZS 2040.2
UAE	UAE.S.5010-2; UAE.S IEC 60456
Jordan	JS 1717 (2006); JS 1888 (2012); JS 2103; JS 2104
US	10 CFR 430, Subpart B, Appendix J; AHAM HLW-1-2010; AHAM HLW-2-2020
Dryers	
General requirements	IEC 61121:2005; IEC 61121; EN 61121; UAE.S IEC 61121
Electric clothes washer/dryers	IEC 62512; EN IEC 62512; UAE.S IEC 62512; EN 50229
<u>Country specific requirements</u>	
Australia	AS/NZS 2442.1; AS/NZS 2442.2
Singapore	IEC 61121:2012
Audio / Video appliances	
General requirements	IEC 60107-1; EN 60107-1
Household appliances	
Microwaves	IEC 60705; EN 60705; EN IEC 60705
Fans	IEC 60879; EN 60879
Standby power / Power consumption	
Standby power	IEC 62301; EN 62301
Power consumption	EN 62087; EN 50564

**98/2 Moo 19, Tumbol Takhli
Takhli District, Nakhonsawan 60140, Thailand**

Test Technology:	Test Method(s)^{1,2}:
Unintentional Emission Radiated	
U.S. (FCC)	
Unintentional Emissions	47 CFR, FCC Part 15, Subpart B (using ANSI C63.4-2014); ANSI C63.4-2014
Consumer ISM	47 CFR, FCC Part 18 (using MP-5:1986); MP-5:1986
International	
Unintentional Emissions	CISPR 11; EN 55011; EN IEC 55011; AS CISPR 11; J55011 (H27); CISPR 13; EN 55013; J55013 (H22); CISPR 14-1:2016; CISPR 14-1; AS/NZS CISPR 14.1; AS CISPR 14.1; EN 55014-1; EN IEC 55014-1; TCVN 7492-1; J55014-1(H27); GSO CISPR 14-1; CISPR 15; AS/NZS CISPR 15; AS CISPR 15; EN 55015; EN IEC 55015; J55015 (H20); CISPR 22; AS/NZS CISPR 22; EN 55022; J55022 (H22); CISPR 32; EN 55032; AS/NZS CISPR 32, EN 50561-1

¹ The laboratory is only accredited for testing activities outlined within the test methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory's accredited capabilities.

²When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard test method, per Annex A, Part C of A2LA R101 - *General Requirements: Accreditation of Conformity Assessment Bodies*.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1		
Rule Subpart/Technology:	Test Method(s):	Maximum Frequency (MHz)
Unintentional Radiators		
Part 15B	ANSI C63.4:2014	18000
Industrial, Scientific, and Medical Equipment		
Part 18	FCC MP-5:1986	8000
Note: Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.		





Accredited Laboratory

A2LA has accredited

EUROFINS PRODUCT SERVICE (THAILAND) CO., LTD.

Bangkok, Thailand

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 3rd day of February 2026.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2402.01
Valid to December 31, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.