

CERTIFICATE OF ACCREDITATION

This is to attest that

UNDERWRITERS LABORATORIES TAIWAN CO., LTD.

NO.260, DA-YEH ROAD, BEITOU DISTRICT TAIPEI CITY, 112, TAIWAN

Testing Laboratory TL-1013

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories* and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date September 10, 2025



International Accreditation Service Issued under the authority of IAS management

International Accreditation Service, Inc.

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UNDERWRITERS LABORATORIES TAIWAN CO., LTD.

www.ul.com

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TL-1013	No.35, Sec.2, Zhongyang S. Road,	Phil Pan	+886.2.7737.3523	14
Satellite	Beitou Dist., Taipei City 112,			
Laboratory	TAIWAN			
TL-1250	No.60, Ln.12, Sec.2, Nanshan	Eric Hu	+886.2.7737.3527	14
	Road, Luzhu Dist., Taoyuan City			
	338, TAIWAN			

Accredited to ISO/IEC 17025:2017

Effective Date September 10, 2025

TL-1013 Main

Medical	
ANSI AAMI ES60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
ANSI/AAMI HA60601-1- 11	Medical electrical equipment part 1-11: general requirements for basic safety and essential performance Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
ANSI/AAMI MP80601-2- 49	Medical electrical equipment—Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors
ANSI/AAMI/IEC 60601- 1-2	Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance Collateral Standard: Electromagnetic disturbances Requirements and tests
ANSI/AAMI/IEC 60601- 1-8	Medical electrical equipment Part 1-8: General requirements for basic safety and essential performance Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems
ANSI/AAMI/IEC 60601- 1-12	Medical electrical equipment – Part 1-12: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment
ANSI/AAMI/IEC 60601- 2-2	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories
ANSI/AAMI/IEC 60601- 2-25	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs

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ANSI/AAMI/IEC 60601- 2-27	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment
ANSI/AAMI/IEC 60601- 2-47	Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems
ANSI/AAMI/IEC 80601- 2-30	Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers
CAN/CSA C22.2 No. 60601-1	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance
CAN/CSA C22.2 No. 60601-1-1	Medical electrical equipment - Part 1-1: General requirements for safety collateral standard: safety requirements for medical electrical systems
CAN/CSA C22.2 No. 60601-1-2	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance — Collateral Standard: Electromagnetic disturbances — Requirements and tests
CAN/CSA C22.2 No. 60601-1-6	Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability
CAN/CSA C22.2 No. 60601-1-8	Medical electrical equipment Part 1-8: General requirements for basic safety and essential performance collateral standard: general requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems
CAN/CSA C22.2 No. 60601-1-11	Medical electrical equipment Part 1-11: General requirements for basic safety and essential performance collateral standard: requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
CAN/CSA C22.2 No. 60601-1-12	Medical electrical equipment – Part 1-12: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment
CAN/CSA C22.2 No. 60601-2-2	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories
CAN/CSA C22.2 No. 60601-2-10	Medical electrical equipment – Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators
CAN/CSA C22.2 No. 60601-2-18	Medical electrical equipment – Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment
CAN/CSA C22.2 No. 60601-2-24	Medical electrical equipment - Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers
CAN/CSA C22.2 No. 60601-2-25	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs
CAN/CSA C22.2 No. 60601-2-26	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs
CAN/CSA C22.2 No. 60601-2-27	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment
CAN/CSA C22.2 No. 60601-2-30	Medical electrical equipment Part 2-30: particular requirements for the safety, including essential performance, of automatic cycling non-invasive blood pressure monitoring equipment





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CAN/CSA C22.2 No 60601-2-34	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment
CAN/CSA C22.2 No 60601-2-37	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment
CAN/CSA C22.2 No. 60601-2-40	Medical electrical equipment - Part 2-40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment
CAN/CSA C22.2 No. 60601-2-41	Medical electrical equipment - Part 2-41: Particular requirements for the basic safety and essential performance of surgical luminaires and luminaires for diagnosis
CAN/CSA C22.2 No. 60601-2-46	Medical electrical equipment - Part 2-46: Particular requirements for the basic safety and essential performance of operating tables
CAN/CSA C22.2 No. 60601-2-47	Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems
CAN/CSA C22.2 No. 60601-2-49	Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment
CAN/CSA C22.2 No. 60601-2-52	Medical electrical equipment – Part 2-52: Particular requirements for the basic safety and essential performance of medical beds
CAN/CSA C22.2 No. 60601-2-57	Medical electrical equipment - Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use
CAN/CSA C22.2 No. 80601-2-30	Medical electrical equipment — Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers
CAN/CSA C22.2 No. 80601-2-55	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors
CAN/CSA C22.2 No. 80601-2-56	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement
CAN/CSA C22.2 No. 80601-2-60	Medical electrical equipment – Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment
CAN/CSA C22.2 No. 80601-2-61	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment
CAN/CSA C22.2 No. 80601-2-70	Medical electrical equipment - Part 2-70: Particular requirements for basic safety and essential performance of sleep apnoea breathing therapy equipment
CSA C22.2 No. 80601- 2-74	Medical electrical equipment - Part 2-74: Particular requirements for basic safety and essential performance of respiratory humidifying equipment
EN 60601-1	Medical electrical equipment Part 1: General requirements for basic safety and essential performance
EN 60601-1-1	Medical Electrical Equipment Part 1-1: General Requirements for Safety Collateral Standard: Safety Requirements for Medical Electrical Systems
EN 60601-1-2	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests





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EN 60601-1-6	Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability
EN 60601-1-8	Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems
EN 60601-1-11	Medical electrical equipment Part 1-11: General requirements for basic safety and essential performance Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
EN 60601-1-12	Medical electrical equipment – Part 1-12: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment
EN 60601-2-2	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories
EN 60601-2-10	Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators
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EN 60601-2-27	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment
EN 60601-2-30	Medical electrical equipment - Part 2-30: Particular requirements for the safety, including essential performance, of automatic cycling non-invasive blood pressure monitoring equipment
EN 60601-2-34	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment
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EN 60601-2-46	Medical electrical equipment - Part 2-46: Particular requirements for the basic safety and essential performance of operating tables





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EN 60601-2-47	Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems
EN 60601-2-49	Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment
EN 60601-2-52	Medical electrical equipment – Part 2-52: Particular requirements for the basic safety and essential performance of medical beds
EN 60601-2-57	Medical electrical equipment - Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use
EN 80601-2-30	Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers
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EN 80601-2-61	Medical electrical equipment – Part 2-61: Particular requirements for the basic safety and essential performance of pulse oximeter equipment
EN IEC 80601-2-26	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs
EN IEC 80601-2-49	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors
EN ISO 80601-2-55	Medical Electrical Equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors
EN ISO 80601-2-56	Medical electrical equipment - Part 2-56: Particular requirements for the basic safety and essential performance of clinical thermometers for body temperature measurement
EN ISO 80601-2-61	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment
EN ISO 80601-2-70	Medical electrical equipment - Part 2-70: Particular requirements for the basic safety and essential performance of sleep apnoea breathing therapy equipment
EN ISO 80601-2-74	Medical electrical equipment - Part 2-74: Particular requirements for basic safety and essential performance of respiratory humidifying equipment
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IEC 60601-1-11	Medical electrical equipment Part 1-11: General requirements for basic safety and essential performance Collateral standard: Requirements for medical





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ISO 80601-2-74	Medical electrical equipment - Part 2-74: Particular requirements for basic safety and essential performance of respiratory humidifying equipment
UL 60601-1	Medical Electrical Equipment, Part 1: General Requirements for Safety
ELECTRICAL	
ANSI/UL 61010-031	Safety Requirements for Electrical Equipment for Measurement, Control And Laboratory Use - Part 031: Safety Requirements For Hand-Held Probe Assemblies For Electrical Measurement And Test
ANSI/UL 61010-1	Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements
ANSI/UL 61010-2-010	Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials
ANSI/UL 61010-2-020	Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-020: Particular Requirements for Laboratory Equipment for Laboratory Centrifuges
ANSI/UL 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Equipment Having Testing or Measuring Circuits
ANSI/UL 61010-2-032	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-032: Particular Requirements for Hand-Held and Hand-Manipulated Current Sensors for Electrical Test and Measurement
ANSI/UL 61010-2-033	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-033: Particular Requirements for Hand-Held Multimeters and Other Meters, for Domestic and Professional Use, Capable of Measuring Mains Voltage





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ANSI/UL 61010-2-040	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-040: Particular Requirements for Laboratory Equipment for Sterilizers and Washer-Disinfectors Used to Treat Medical Materials
ANSI/UL 61010-2-051	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-051: Particular Requirements for Laboratory Equipment for Laboratory Equipment for Mixing and Stirring
ANSI/UL 61010-2-081	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-081: Particular Requirements for Laboratory Equipment for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes
ANSI/UL 61010-2-101	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-101: Particular Requirements for In Vitro Diagnostic (IVD) Medical Equipment
CAN/CSA C22.2 No. 61010-031	Safety requirements for electrical equipment for measurement, control and laboratory use — Part 031: Safety requirements for hand-held and hand-manipulated probe assemblies for electrical test and measurement
CAN/CSA C22.2 No. 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
CAN/CSA C22.2 No. 61010-2-010	Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-010: Particular requirements for laboratory equipment for the heating of materials
CAN/CSA C22.2 No. 61010-2-020	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges
CAN/CSA C22.2 No. 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-030: Particular requirements for equipment having testing or measuring circuits
CAN/CSA C22.2 No. 61010-2-032	Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-032: Particular requirements for hand-held and hand manipulated current sensors for electrical test and measurement
CAN/CSA C22.2 No. 61010-2-033	Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-033: Particular requirements for hand-held multimeters for domestic and professional use, capable of measuring mains voltage
CAN/CSA C22.2 No. 61010-2-040	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-040: Particular requirements for sterilizers and washer disinfectors used to treat medical materials
CAN/CSA C22.2 No. 61010-2-051	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring
CAN/CSA C22.2 No. 61010-2-081	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes
CAN/CSA C22.2 No. 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment
EN 60730-1	Automatic electrical controls - Part 1: General requirements





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EN 04040 004	
EN 61010-031	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test
EN 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements
EN 61010-2-010	Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-010: Particular requirements for laboratory equipment for the heating of materials
EN 61010-2-020	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges
EN 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits
EN 61010-2-032	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-032: Particular requirements for HAND-HELD and hand-manipulated current sensors for electrical test and measurement
EN 61010-2-033	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other meters, for domestic and professional use, capable of measuring mains voltage
EN 61010-2-040	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-040 Particular requirements for sterilizers and washer-disinfectors used to treat medical materials
EN 61010-2-051	Safety requirements for electrical equipment for measurement, control, and laboratory use Part 2-051: Particular requirements for laboratory equipment for mixing and stirring
EN 61010-2-081	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes
EN 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment
EN IEC 60730-2-7	Automatic electrical controls - Part 2-7: Particular requirements for timers and time switches
IEC 60730-1	Automatic electrical controls - Part 1: General requirements
IEC 60730-2-7	Automatic electrical controls - Part 2-7: Particular requirements for timers and time switches
EN IEC 61051-1	Varistors for use in electronic equipment – Part 1: Generic specification
EN IEC 61051-2	Varistors for use in electronic equipment – Part 2: Sectional specification for surge suppression varistors
IEC 61010-031	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test
IEC 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements





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IEC 61010-2-010	Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-010: Particular requirements for laboratory equipment for the heating of materials
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IEC 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits
IEC 61010-2-032	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-032: Particular requirements for HAND-HELD and hand-manipulated current sensors for electrical test and measurement
IEC 61010-2-033	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other meters, for domestic and professional use, capable of measuring mains voltage
IEC 61010-2-040	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-040 Particular requirements for sterilizers and washer-disinfectors used to treat medical materials
IEC 61010-2-051	Safety requirements for electrical equipment for measurement, control, and laboratory use Part 2-051: Particular requirements for laboratory equipment for mixing and stirring
IEC 61010-2-081	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes
IEC 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment
UL 2271	Batteries for Use in Light Electric Vehicle (LEV) Applications
UL 2849	Electrical Systems for eBikes

TL-1013 Satellite Location

IEC 62680-1-2,	Universal Serial Bus Interfaces for Data and Power – Common Components.
EN IEC 62680-1-2	USB Power Delivery Specification
SASO-IEC-62680-1-2	Universal serial bus interfaces for data and power- Part 1-2: Common
	components - USB Power Delivery specification
IEC 62680-1-3,	Universal serial bus interfaces for data and power – Part 1-3: Common
EN IEC 62680-1-3	components – USB Type-C® Cable and Connector Specification
SASO-IEC-62680-1-3	Universal serial bus interfaces for data and power - Part 1-3: Universal Serial Bus
	interfaces - Common components - USB Type-CTM cable and connector
	specification

TL-1250 Location

ENERGY STAR	ENERGY STAR Program Requirements Product Specification for Electric Vehicle
	Supply Equipment version 1.2





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Electric Vehicle Supply	ENERGY STAR Level 1 and Level 2 Electric Vehicle Supply Equipment Test
Equipment (AC)	Method (Rev. Apr-2017)
	ENERGY STAR Test Method for Determining Display Energy – Rev. Sep-2015
	Section 6.7.5.2 of Consumer Electronics Association (CEA) 2037 A,
	Determination of Television Set Power Consumption
ENERGY STAR	ENERGY STAR Program Requirements Product Specification for Electric Vehicle
Electric Vehicle Supply	Supply Equipment version 1.2
Equipment (DC)	ENERGY STAR DC-Output Electric Vehicle Supply Equipment Test Method
	(Rev. Mar-2021)
	ENERGY STAR Test Method for Determining Display Energy – Rev. May-2019
	Section 6.7.5.2 of Consumer Electronics Association (CEA) 2037 A,
	Determination of Television Set Power Consumption
UL 2271	Batteries for Use in Light Electric Vehicle (LEV) Applications
UL 2849	Electrical Systems for eBikes

