



No. 082

**Hong Kong Productivity Council – Electromagnetic Compatibility Centre**  
香港生產力促進局 – 電磁兼容科技中心

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**CLIENTELE** : Public  
**服務對象** : 公眾

**ACCREDITED TEST CATEGORIES** : Electrical and Electronic Products 電氣及電子產品  
**認可測試類別**

**SCOPE OF ACCREDITATION** : As shown on the following pages 詳見後頁  
**認可範圍**

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TEST CATEGORY 測試類別	ITEMS, MATERIALS OR PRODUCTS TESTED 測試項目、材料或產品	SPECIFIC TESTS OR PROPERTIES MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
ELECTRICAL and ELECTRONIC PRODUCTS 電機及電子產品	<p>Unintentional radiators and intentional radiators subject to 47 CFR Part 15 &lt; <b>Excluding the following</b> &gt;</p> <ul style="list-style-type: none"> <li>- TV broadcast receivers</li> <li>- TV interface devices</li> <li>- cable system terminal devices</li> <li>- closed caption decoder requirements for analog television receivers</li> </ul> <p>Household appliances, electric tools and similar apparatus, electric and electronic toys &lt; <b>Excluding the following</b> &gt;</p> <ul style="list-style-type: none"> <li>- air-conditioners</li> <li>- arc welding equipment</li> <li>- igniters</li> <li>- three-phase equipment</li> </ul> <p>Information technology equipment</p> <p>Electrical and electronic apparatus intended for use in residential, commercial and light-industrial environment for which no dedicated product or product-family emission standard exists</p>	<p>EMC tests :-</p> <ul style="list-style-type: none"> <li>- Measurement of conducted emission field strength               <ul style="list-style-type: none"> <li>- 9 kHz to 30 MHz</li> </ul> </li> <li>- Measurement of radiated emission field strength in semi-anechoic chamber               <ul style="list-style-type: none"> <li>- 30 MHz to 1000 MHz</li> </ul> </li> <li>- Measurement of terminal disturbance voltages               <ul style="list-style-type: none"> <li>- 148.5 kHz to 30 MHz</li> </ul> </li> <li>- Measurement of disturbance power               <ul style="list-style-type: none"> <li>- 30 MHz to 300 MHz</li> </ul> </li> <li>- Measurement of radiated disturbance in semi-anechoic chamber (for electric and electronic toys only)               <ul style="list-style-type: none"> <li>- 30 MHz to 1000 MHz</li> </ul> </li> <li>- Measurement of conducted disturbance at mains terminals and telecommunication ports               <ul style="list-style-type: none"> <li>- 150 kHz to 30 MHz</li> </ul> </li> <li>- Measurement of radiated disturbance in semi-anechoic chamber               <ul style="list-style-type: none"> <li>- 30 MHz to 1000 MHz</li> </ul> </li> <li>- Measurement of conducted disturbance at mains terminals and telecommunication ports               <ul style="list-style-type: none"> <li>- 150 kHz to 30 MHz</li> </ul> </li> <li>- Measurement of radiated disturbance in semi-anechoic chamber               <ul style="list-style-type: none"> <li>- 30 MHz to 1000 MHz</li> </ul> </li> </ul>	<p>47 CFR Part 15 Subparts A to D using the methods specified in ANSI C63.4-2003 and CISPR 22: 1997+ A1 + A2 &lt; <b>Excluding the following</b> &gt; 15.115, 15.117, 15.119</p> <p>CISPR 14-1: 2000 + A1 + A2 EN 55014-1: 2000 + A1 + A2</p> <p>CISPR 22: 1993 + A1 + A2 CISPR 22: 1997 + A1 + A2 EN 55022: 1994 + A1 + A2 EN 55022: 1998 + A1 + A2 &lt; <b>Excluding the following</b> &gt; for the above four standards Clause 9.5.2</p> <p>EN 61000-6-3: 2001 IEC 61000-6-3: 1996</p>

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ELECTRICAL and ELECTRONIC PRODUCTS (cont'd) 電機及電子產品 (續上)	<p>Electrical appliances having an input current up to 16A per phase and connected to 220/380V, 230/400V or 240/415V supply system operating at 50 Hz or 60 Hz <i>&lt;Excluding the following&gt;</i> - air-conditioners - arc welding equipment - TV receivers - washing machines - three-phase equipment</p> <p>Electrical appliances having an input current up to 16A per phase and connected to a supply system of line to neutral voltage between 220 V and 250 V at 50 Hz <i>&lt;Excluding the following&gt;</i> - air-conditioners - arc welding equipment - TV receivers - washing machines - three-phase equipment</p> <p>Lighting equipment and luminaires <i>&lt;Excluding the following&gt;</i> - luminaires with fluorescent lamps</p>	<p>EMC tests :- (cont'd)</p> <p>- Measurement of harmonic current emissions</p> <p>- Measurement of voltage fluctuations and flicker</p> <p>- Measurement of conducted disturbance voltages at mains terminals, load terminals and control terminals - 9 kHz to 30 MHz</p> <p>- Measurement of radiated electromagnetic disturbances - 9 kHz to 30 MHz</p>	<p>EN 61000-3-2: 2000 IEC 61000-3-2: 2000</p> <p>EN 61000-3-3: 1995 + A1 IEC 61000-3-3: 1994 + A1</p> <p>CISPR 15: 2000 EN 55015: 2000</p>

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ELECTRICAL and ELECTRONIC PRODUCTS (cont'd) 電機及電子產品 (續上)	<p>Electrical and electronic equipment subject to static electricity discharge</p> <p>Electrical and electronic equipment subject to radio-frequency electromagnetic field</p> <p>Electrical and electronic equipment subject to repetitive electrical fast transient</p> <p>Electrical and electronic equipment subject to unidirectional surges caused by overvoltages from switching and lightning transients</p> <p>Electrical and electronic equipment subject to electromagnetic disturbances coming from intended radio frequency (RF) transmitters</p> <p>Electrical and electronic equipment having an input current up to 16A per phase and connected to low-voltage power supply networks excluding d.c. and 400 Hz networks</p>	<p>EMC tests :- (cont'd)</p> <p>- Electrostatic discharge immunity test</p> <p>- Radio-frequency electromagnetic field susceptibility test up to a maximum field strength of 3 V/m - 80 MHz to 1000 MHz</p> <p>- Electrical fast transient/burst immunity test - 4 kV 5/50ns</p> <p>- Surge immunity test - 4 kV 1.2/50 <math>\mu</math>s, 8/20 <math>\mu</math>s and 10/700 <math>\mu</math>s</p> <p>- Test for immunity to conducted disturbances induced by radio frequency fields - 150 kHz to 80 MHz, 3V rms</p> <p>- Voltage dips, short interruptions and voltage variations immunity tests</p>	<p>EN 61000-4-2: 1995 + A1 + A2 IEC 61000-4-2: 1995 + A1 + A2</p> <p>EN 61000-4-3: 2002 + A1 IEC 61000-4-3: 2002 + A1</p> <p>EN 61000-4-4: 1995 + A1 + A2 IEC 61000-4-4: 1995 + A1 + A2</p> <p>EN 61000-4-5: 1995 + A1 IEC 61000-4-5: 1995 + A1</p> <p>EN 61000-4-6: 1996 + A1 IEC 61000-4-6: 1996 + A1</p> <p>EN 61000-4-11: 1994 + A1 IEC 61000-4-11: 1994 + A1</p>

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ELECTRICAL and ELECTRONIC PRODUCTS (cont'd) 電機及電子產品 (續上)	Electrical and electronic apparatus intended for use in residential and light-industrial environment for which no dedicated product or product-family immunity standard exists	EMC tests :- (cont'd) - Electrostatic discharge immunity test - 8 kV air discharge - Radio frequency electromagnetic field susceptibility test - 80 MHz to 1000 MHz, 3 V/m (unmodulated) - Electrical fast transient/burst immunity test - 1 kV 5/50 ns 5 kHz for a.c. input and output ports - 0.5 kV 5/50 ns 5 kHz for others - Surge immunity test - 2 kV 1.2/50 $\mu$ s, 8/20 $\mu$ s - Test for immunity to conducted disturbances induced by radio frequency fields - 150 kHz to 80 MHz, 3V rms - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-6-1: 2001 IEC 61000-6-1: 1997