

**Proposed Amendments to the English Version of
“Guidance Notes for the Electrical Products (Safety) Regulation” (December 2018)**

(1) New chapter of “Quick Summary” to be added

<u>Item</u>	<u>Description</u>	<u>Recommendation</u>
1.	<ul style="list-style-type: none"> • To facilitate the readers to easily understand the statutory requirements of the Electrical Products (Safety) Regulation (EPSR). • To provide a quick and easy reference for the readers to grasp the important contents of the Guidance Notes for the EPSR. 	<p>Add a new chapter of “Quick Summary”, which will be the first chapter of guidance notes summarizing and simplifying some important contents as shown below:</p> <ul style="list-style-type: none"> • Electrical Products regulated under the EPSR: The considerations of whether an electrical product is regulated under EPSR will be advised as follows: <ul style="list-style-type: none"> a.) Designed for household use; b.) Supplied in Hong Kong; and c.) Using a voltage exceeding 50V alternating current or 120V direct current. <p>Moreover, the important requirements of having the certificate of safety compliance issued before the supply of the related electrical products and complying with the applicable safety requirements of electrical products will be introduced.</p> <ul style="list-style-type: none"> • Classification of Electrical Products: According to the EPSR, electrical products are classified into “prescribed products” and “non-prescribed products” which have to comply with the relevant requirements as stipulated in the EPSR. • Certificate of Safety Compliance: The requirements for documents to be accepted as a certificate of safety compliance will be explained. Moreover, samples of the acceptable documents will be included to facilitate the readers for understanding the requirements. • Applicable Safety Requirements: The essential safety requirements for electrical products will be explained. <p>To enhance the understanding of the requirements, the aided information (e.g. figures, photos, etc.)/examples will be supplemented in the Quick Summary.</p>

(2) Illustrations to be supplemented

<u>Item</u>	<u>Description</u>	<u>Recommendation</u>
1.	To facilitate the suppliers to preliminarily check whether the electrical products can fulfil the requirements of the EPSR.	Add a new checklist in the aforesaid new chapter: Based on the summarized information in the new chapter of “Quick Summary”, a new checklist will be prepared in order to allow the suppliers for conducting a preliminary check on whether an electrical product is regulated under EPSR and the relevant requirements that it shall comply with.

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2.	To illustrate the requirements of marking which is required to be printed on the electrical product or the accompanying notice where appropriate as stipulated in the Schedule 1 of the EPSR.	Add a new figure for illustration: The figure will show the essential safety requirements of the marking, e.g. rated voltage and frequency, rated input power or current, model or type reference number, manufacturer's name or trade mark, etc.
3.	To show the latest document format of "CB test certificate" acceptable as the certificate of safety compliance.	Update the Figure 4: The figure of the latest document format of "CB test certificate" will be adopted to replace the existing one.
4.	To show the latest document format of "HOKLAS endorsed test report" acceptable as the certificate of safety compliance.	Update the Figure 5 (page 2 of 2): The figure of the latest document format of "HOKLAS endorsed test report" will be adopted to replace the existing one.
5.	To incorporate with the aided information for illustrating the EPSR requirements in a lively and clearer way.	Supplement the aided information in relevant sections of the guidance notes, e.g. add photos/pictures in relevant sections for illustrating the prescribed products.

(3) Requirements and Relevant Standards of New Electrical Products

<u>Item</u>	<u>Description</u>	<u>Recommendation</u>
1.	To add the standard of new electrical product "Self-ballasted LED lamps" in the guidance notes.	Supplement in Section C 1.2.5: IEC 62560 "Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications" will be included.
2.	To add the standard of new electrical product "LED modules" in the guidance notes.	Supplement in Section C 1.2.5: IEC 62031 "LED modules for general lighting - Safety specifications" will be included.
3.	To add the standard of new electrical product "Control gear for LED modules" in the guidance notes.	Supplement in Section C 1.2.5: IEC 61347-2-13 "Lamp controlgear: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules" will be included.
4.	To add the requirements of photobiological safety of lamps and lamp systems including luminaires, especially for LED light	Add a new section of Section C 1.4: IEC 62471 "Photobiological safety of lamps and lamp systems" will be introduced for assessment of the classification of risk group. The requirements of relevant standards shall be complied with according to the risk group.
5.	To supplement the requirements of new electrical product "Socket-outlets with USB circuits intended for charging portable devices" in the guidance notes.	Supplement in Section C 1.1.5 and Section C 1.2.4: Requirements for socket-outlets incorporating electronic components such as USB circuits intended for charging portable devices in the 2016 edition of BS 1363-2 will be included.
6.	To supplement the requirements of new electrical product "Adaptors with USB circuits intended for charging portable devices" in the guidance notes.	Supplement in Section C 1.1.2 and Section C 3.2(4)(A)(II)(a): Requirements for adaptors incorporating electronic components such as USB circuits intended for charging portable devices in the 2016 edition of BS 1363-3 will be included.
7.	To add the advisory notes for supplying the new electrical	Supplement in Section C 1.2.3:

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	product “mildly flammable refrigerant air-conditioner” in the guidance notes.	For domestic air-conditioner using mildly flammable refrigerant such as R32, suppliers are advised to display the flame label on the air-conditioner when viewing appliance on display for sale; and retain the requirement of restricting the room size and installation height of the air-conditioner in order to suit the environment of local premises.

(4) Update of New Standards for Electrical Products

<u>Item</u>	<u>Description</u>	<u>Recommendation</u>
1.	To update the standard of IEC 291 which has been withdrawn.	Replace the IEC 291 in Section B.2 by: IEC 60050 “International Electrotechnical Vocabulary”
2.	To update the standard of BS 3535 Part 1 or BS 3535 which has been withdrawn.	Replace the BS 3535 Part 1 or BS 3535 in Section B.6(3)(B), Section B.6(7), Section C 1.1.1, Section C 1.2(D), Section C 1.2.4, Section C 3.1(1)(C), Section C 3.1(2) and Section C 3.1(4)(C) by: IEC 61558-2-5 “Safety of transformers, reactors, power supply units and combinations thereof: Particular requirements and test for transformer for shavers, power supply units for shavers and shaver supply units”
3.	To update the standard of ISO 9002 which has been withdrawn.	Replace the ISO 9002 in Section B.10(1)(B) and Figure 3 by: ISO 9001 “Quality Management Systems – Requirements”.
4.	To update the standard of BS 6500 which has been withdrawn.	Replace the BS 6500 in Section C 1.1.4 and Section C 1.2.1 by: BS EN 50525 “Electric cables. Low voltage energy cables of rated voltages up to and including 450/750 V”
5.	To update the standard of BS 7206 which has been withdrawn.	Replace the BS 7206 in Section C 1.1.6 by: BS EN 12897 “Water supply. Specification for indirectly heated unvented (closed) storage water heaters”
6.	To update the standard of BS 3456 Part 102.21 which has been withdrawn.	Replace the BS 3456 Part 102.21 in Section C 1.1.6 by: IEC 60335-2-21 “Particular requirements for storage water heaters” which has already included in the guidance notes.
7.	To update the standard of BS 3955 which has been withdrawn.	Replace the BS 3955 in Section C 1.1.6 and Section C 3.6(3)(D)(II) by: BS EN 60730 “Automatic electrical controls”
8.	To update the standard of IEC 60598-2-6 which has been withdrawn.	Replace the IEC 60598-2-6 in Section C 1.2.5 by: IEC 60598-1 “Luminaires - General requirements and tests” which incorporated the concerned requirements in new edition of this standard.
9.	To update the standard of IEC 60598-2-7 which has been withdrawn.	Replace the IEC 60598-2-7 in Section C 1.2.5 by: IEC 60598-2-4 “Luminaires - Portable general purpose luminaires” which incorporated the concerned requirements in new edition of this standard
10.	To update the standard of BS 88 which has been withdrawn.	Replace the BS 88 in Section C 1.2.7 by: BS EN 60269 “Low-voltage fuses”
11.	To update the standard of BS 4293 which has been withdrawn	Delete the BS 4293 in Section C 1.2.7.

	and the replaced standard was included in the guidance notes.	
12.	To update the standard of EN 50366 which has been withdrawn and the replaced standard was included in the guidance notes.	Delete the EN 50366 in Section C 1.3.
13.	To update the standard of BS 1361 which has been withdrawn.	Replace the BS 1361 in Section C 1.2.7 by: BS HD 60269-3 "Low-voltage fuses. Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications). Examples of standardized systems of fuses A to F"
14.	To update the standard of BS 699 which has been withdrawn and the replaced standard was included in the guidance notes.	Delete the BS 699 in Section C 3.6(3)(C)(II).
15.	To update the standards with new standard numbers in relevant sections of guidance notes.	Replace the standards in relevant sections as follows: i.) Replace IEC 50 by IEC 60050 (Section B.2) ii.) Replace IEC 335 Part 1 by IEC 60335 Part 1 (Section B.2) iii.) Replace IEC 598 Part 1 by IEC 60598 Part 1 (Section B.2) iv.) Replace IEC 884-1 by IEC 60884-1 (Section B.6(4) and Section B.6(5))
16.	To update the standard titles in relevant sections of guidance notes.	Update the standard titles in relevant sections as follows: i.) Update BS 6004 " Electric Cables. PVC insulated, non-armoured cables with rated <u>and PVC sheathed cables for</u> voltages up to and including 450/750V, 300/500V for electric power, <u>and</u> lighting and internal wiring " (Section C 1.2.1) ii.) Update IEC 60730 "Automatic electrical controls for household and similar use " (Section C 1.2.2) iii.) Update IEC 60335-2-53 "Particular requirements for sauna heating appliances <u>and infrared cabins</u> " (Section C 1.2.3) iv.) Update BS 7288 "Specification for socket outlets incorporating residual current devices (S.R.C.D.s) <u>with or without overcurrent protection for socket outlets for household and similar uses</u> " (Section C 1.2.3) v.) Update IEC 60335-2-8 "Particular requirements for electric shavers, hair clippers and similar appliances" (Section C 1.2.3) vi.) Update IEC 60335-2-34 "Particular requirements for Motor compressors " (Section C 1.2.3) vii.) Update IEC 61558 "Safety of power transformers, <u>reactors</u> , power supply units and similar <u>combinations thereof</u> " (Section C 1.2.3) viii.) Update IEC 60335-2-31 "Particular requirements for range hoods <u>and other cooking fume extractors</u> " (Section C 1.2.3) ix.) Update IEC 60335-2-27 "Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation <u>optical radiation</u> " (Section C 1.2.3) x.) Update IEC 61347-2-9 "Particular requirements for ballasts <u>electromagnetic controlgear</u> for discharge lamps (excluding fluorescent lamps)" (Section C 1.2.5)

17.	To update the description of electrical products and standard titles in relevant sections of guidance notes.	<p>Update the description of electrical products and standard titles in relevant sections as follows:</p> <ul style="list-style-type: none"> i.) Update the description of electrical product “Electric toilets toilet appliances” and standard title “IEC 60335-2-84 : Particular requirements for toilets toilet appliances” (Section C 1.2.3) ii.) Update the description of electrical product “Ice-makers Ice makers” and standard title “IEC 60335-2-24 : Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers ice makers” (Section C 1.2.3) iii.) Update the description of electrical product “A.C.-supplied electronic ballasts Electronic control gear of tubular for fluorescent lamps” and standard title “IEC 61347-2-3 : Particular requirements for a.c.-supplied electronic ballasts electronic control gear for fluorescent lamps” (Section C 1.2.5) iv.) Update the description of electrical product “Fuse-holders for miniature cartridge fuse-links” and standard title “BS EN 60127-6 : Fuse-holders for miniature cartridge fuse-links” (Section C 1.2.7)
18.	To specify a period after that a new edition of standard was published, such edition of standard should be adopted by the trade in general, coping with the latest safety requirements.	Suitable clause(s) would be added in Section A.5, to specify that in general a preset period (e.g. 1 year) after a new edition of standard was published, such edition of standard should be adopted unless there is an effective date specified in the standard therein, coping with the latest safety requirements. But for particular case as necessary, EMSD may further consult the trade and/or the relevant electrical products suppliers for a different period to adopt the new edition of standard.

(5) Requirements of certificate of safety compliance, recognized certification bodies and recognized manufacturers

Item	Description	Recommendation
1.	To update the ISO document which is related to the declaration of conformity.	<ul style="list-style-type: none"> • Rewrite Section B.8(2)(B): “A declaration of conformity issued by a recognized manufacturer. The format of the declaration of conformity should preferably be based on the ISO/IEC Guide 22: 1982 “Information on manufacturer's declaration of conformity with standards or other technical specifications” ISO/IEC 17050: Conformity assessment - Supplier's declaration of conformity [see Figure 6 for a sample of the declaration of conformity].” • Rewrite Section B.8(3) last paragraph: “The declaration of conformity issued by the product manufacturer [see Figure 6 for a sample of the declaration of conformity] should be substantiated by relevant certificates and/or test reports.”
2.	To advise the updated list of recognized certification bodies for reference to the public at EMSD’s website.	<ul style="list-style-type: none"> • Rewrite Section B.9(6): “... Annex 2 of the Notes shows the list of recognized certification bodies. The updated list of recognized

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		certification bodies can also be found at EMSD's website: http://www.emsd.gov.hk." <ul style="list-style-type: none"> Remove Annex 2
3.	To advise the updated list of recognized manufacturers for reference to the public at EMSD's website.	<ul style="list-style-type: none"> Rewrite Section B.10(3): "...Annex 3 of the Notes shows the list of recognized manufacturers. The updated list of recognized manufacturers can also be found at EMSD's website: http://www.emsd.gov.hk." Remove Annex 3

(6) Miscellaneous

<u>Item</u>	<u>Description</u>	<u>Recommendation</u>
1.	To update the publication year for the latest version of Regulations for HKAS Accreditation (HKAS 002).	Update the publication year in the Supplementary notes of Section B.2 by: ## The "Regulations for Laboratory Accreditation (HOKLAS 002)" has been withdrawn and replaced by the "Regulations for HKAS Accreditation (HKAS 002)" in 2003 2016 .
2.	Typo "IEC 60061-2: Lamps caps and holders together with gauges for the control of interchangeability and safety - Lampholders"	Modify the following in Section C 1.1.3: <ul style="list-style-type: none"> IEC 60061-2: Lamps caps and holders together with gauges for the control of interchangeability and safety - Lampholders
3.	Typo "IEC 60227: Polyvinyl chloride insulated cables with rated voltages up to and including 450/750V"	Modify the following in Section C 1.1.4 and Section C 1.2.1: <ul style="list-style-type: none"> IEC 60227: Polyvinyl chloride insulated cables with of rated voltages up to and including 450/750V
4.	Typo "IEC 60245: Rubber insulated cables with rated voltages up to and including 450/750V"	Modify the following in Section C 1.1.4 and Section C 1.2.1: <ul style="list-style-type: none"> IEC 60245: Rubber insulated cables with rated Rated voltages up to and including 450/750V
5.	Typo "All adaptors should be clearly and indelibly marked with the standard to which they conform (i.e. BS 546, BS 1363/3)."	Modify the following in Section C 3.2(4)(B)(III): <ul style="list-style-type: none"> All adaptors should be clearly and indelibly marked with the standard to which they conform (i.e. BS 546, BS-1363/3 BS 1363-3).