

Product:	Battery Operated Product		
Scope:	Battery Operated Product.	Protocol No.	TYCP-PS001 (NA)
		Version	0.2
		Issue Date	15 Jan 2013
		Prepared by	Intertek C&E GZ
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NB: Where there is no applicable US or CN standard, Intertek has chosen the most relevant International standards to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.

Attribute	Citation	Requirement / Limit
Document Check		
1. Packaging	Visual Check	Packaging must state the size and number of batteries required if batteries are not sold with the product.
2. Use Labelling	Visual Check	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries
For US Only		
3. Battery Warning Statement	ASTM F963 6.5 (Scope Widened)	The following statement either in the instructions or marked on the device (required only for devices which use more than one battery in one circuit): "Do not mix old and new batteries and Do not mix alkaline, standard (carbon-zinc) or rechargeable (ni-cad, ni-mh, etc.) batteries"
4. Compartment Marking	ASTM F963 6.5 (Scope Widened)	Products with replaceable batteries shall be permanently marked, visible at time of battery replacement, to indicate polarity alignment or how to insert correctly. NOTE: This is not necessary if batteries can be inserted either way, regardless of polarity, and the product will still function. Also, battery compartments for button cell batteries are not subject to this requirement.
5. †FCC Rules	Document Check	Products shall have valid FCC report if operating frequency > 9 kHz for AC, or operating frequency > 1.705MHz for battery operated product.
6. †FCC marking and instruction	Visual	Products shall have FCC required marking and instruction if operating frequency > 9 kHz for AC, or operating frequency > 1.705MHz for battery operated product.
For Canada Only		
7. †Canada IC Rules	Document Check	Products shall have valid IC report if operating frequency > 10 kHz for AC, or operating frequency > 1.705MHz for battery operated product.
8. †Canada IC labeling	Visual	Products shall have IC required labeling if operating frequency > 10 kHz for AC, or operating frequency > 1.705MHz for battery operated product.
Electrical Safety		
9. Packing	Visual Check	No hazard when removing the packing
10. Workmanship – external	Visual Check	Shall have no sharp points/edges, other than those required for function. Shall have no components missing, malformed, and/or fractured.
11. Workmanship – internal	Visual Check	Solder connections shall be secured Components shall be reliably mounted on PCB or other proper fixing.
12. Mechanical Assembly	Visual Check	All mechanical parts shall be securely fixed and prevented from turning.
13. Internal Wiring	Visual Check	Wireways shall not allow wires to come in contact with sharp points, edges or moving parts.

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14. Reverse Polarity of Battery	In-house Method	Insert battery but with reverse polarity and stabilize for 1 hour. Explosion or chemical leakage shall not occur.
Performance Test		
15. Functional Check	Actual Use	All the major features shall be matched with the installation and use instructions and claims made on the packaging, with no inaccurate or misleading statements about the product, or any other user-friendliness problems.
16. Continuous Operation Test	In-house method	Continuously operate for 100 cycles or until battery exhaust (if continuous operation permits). Shall not indicate safety issue, fire risk, or any other abnormality.
17. Durability of Switches	In-house Method	Switches shall continue to function correctly after 200 cycles of operations.

Remark: Additional tests may be incurred subject to the final samples reviewed by Intertek.

Key: *: Additional charge items †: Mandatory Requirement

Testing Charge & Sample Size & Turnaround Time

Packaging Charge	USD 150 (Net)
Sample size	2 pieces
Turnaround time	7 working days
Remark: Price information is for reference only and based on our GZ laboratory pricing. Please check with local laboratories to confirm exact pricing for your region.	

Revision History

Issue No.	Revision date	Changes	Prepared by	Approved by
0.1	Sep 12, 2011	Draft	Tiger Yang	
0.2	Aug 23, 2012	Added Canada requirements	Dino Du	Taylor (Emily) on 08 Jan 2013