

測試報告

CNS 14336-1

資訊技術設備安全通則

報告號碼.....: TSSF2109000324T0

測試人員.....: 鄭博文

鄭博文

報告簽署人.....: 王維釵

王維釵

案件受理日期.....: 110年 09 月 14 日

報告完成日期.....: 110年 11 月 15 日

總頁數.....: 43 頁, 另有照片檔案 8 頁

測試實驗室

名稱.....: 台灣檢驗科技股份有限公司安規實驗室

地址.....: 新北市五股區新北產業園區五權路 33 號

TAF 認證編號.....: 2806

BSMI 實驗室認可編號.....: SL2-IN/VA/A1/A2-T-0141

報告版本編號.....: CNS14336-1 2020-11

申請者

名稱.....: BeelInventor Limited

地址.....: FLAT/RM 220, 2/F ,CORE BUILDING 2, No 1 SCIENCE PARK
WEST AVENUE, SHATIN, NT

測試規格

標準.....: CNS 14336-1: 99 年版

總評.....: 符合此標準要求

測試項目.....: Dasloop G2S Smart Helmet

註冊商標.....: Dasloop

製造商.....: 同申請者

製造商地址.....: 同申請者

工廠.....: 同申請者

工廠地址.....: 同申請者

型號.....: Dasloop G2S

產品額定規格.....: 3.6 Vdc, 1 A

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細目：測試項目與測試要求

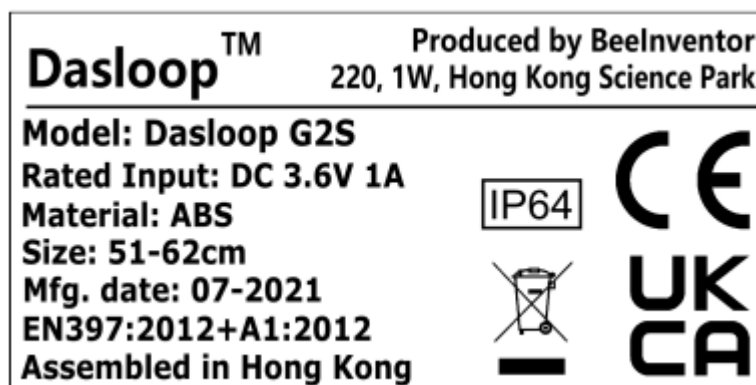
設備移動性.....	: 可攜式設備
主電源連接方式.....	: 未與主電源連接
工作方式	: 連續性
過電壓等級.....	: 無
電壓許可差範圍.....	: 無
防電擊等級.....	: III 類
進水防護等級	: IP64
設備重量 (kg)	: 0.48

可能的試驗情況判定

試驗情況不適用本試驗產品	: 不適用
試驗樣品滿足要求	: 符合
試驗樣品不滿足要求	: 不合格

測試

測試項目定案日期.....	: 110年 10 月 26 日
實施測試的日期區間	: 110年 10 月 27 日至110 年 11 月 12 日

產品標籤圖示:

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 CCXXxxYYyyZzW**測試摘要:**

- 此設備廠商宣告之最高額定操作室溫為 50 度 C。
- 本產品需搭配 18650 電池及 LED 頭燈並搭配 GSM sim 卡做緊急通訊用，產品不具備充電功能。
- 本次產品測試時搭配 Panasonic Group, SANYO Electric Co., Ltd.型號 NCR18650PF 的 18650 鋰電池做測試，實際樣品不附賣。
- 此份測試報告僅適用於實際送樣樣品。

一般評述:

本報告出現的試驗結果僅與試驗樣品有關

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本報告複製時須包含總頁數與頁碼

“(見附表)”指本報告的附加表格

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試驗結果之符合性判定規則，依據 IEC GUIDE 115 CL.4.4.3 Figure 2 不考量量測不確定度的影響，且報告不提供量測不確定度。

本報告所做的評估、測試和判定是依據客戶所提供的資訊、文件和樣品。

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條款	要求 + 試驗	結果 - 觀察	判定
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1	通則		符合
1.5	零組件		符合
1.5.1	通則		符合
	符合本標準或相關國家標準規定	(詳見附表 1.5.1)	符合
1.5.2	零組件之評估與試驗		符合
	插刀		不適用
1.5.3	溫度調節器		不適用
1.5.4	變壓器		不適用
1.5.5	互連電纜線		符合
1.5.6	電容器跨接絕緣		不適用
1.5.7	電阻器跨接絕緣		不適用
1.5.7.1	電阻器跨接功能性絕緣, 基本絕緣或補充絕緣		不適用
1.5.7.2	電阻器跨接交流電源供應與其他電路間的雙重絕緣或強化絕緣		不適用
1.5.7.3	跨接電阻器至天線裝置或同軸電纜之電路		不適用
1.5.8	連接至 IT 電源配線系統之設備的零組件		不適用
1.5.9	突波吸收器		不適用
1.5.9.1	通則		不適用
1.5.9.2	變阻器的保護		不適用
1.5.9.3	使用變阻器跨接功能性絕緣		不適用
1.5.9.4	使用變阻器跨接基本絕緣		不適用
1.5.9.5	使用變阻器跨接補充, 雙重或強化絕緣		不適用

1.6	電源介面		符合
1.6.1	交流電源配線系統	此產品為 III 類設備	不適用
1.6.2	輸入電流	(詳見附表 1.6.2)	符合
1.6.3	手持式設備之電壓限制值		不適用
1.6.4	中性線		不適用

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條款	要求 + 試驗	結果 - 觀察	判定
1.7	標示及說明書		符合
1.7.1	額定功率		符合
	額定電壓或額定電壓範圍 (V).....:	見標籤上標示	符合
	若只能通直流電，只能標示直流電源符號.....:	見標籤上標示	不適用
	額定頻率或額定頻率範圍 (Hz).....:	使用直流電壓輸入	不適用
	額定電流 (mA 或 A).	見標籤上標示	符合
	製造者名稱，商標或表徵.:	見標籤上標示	符合
	製造者機型或型號.....:	見標籤上標示	符合
	II 類結構符號.....:	III 類設備	不適用
	其他符號.....:	其它符號不會引起誤會	符合
1.7.2	安全說明書及標示	提供使用說明書	符合
1.7.2.1	通則	見使用說明書	符合
1.7.2.2	切離裝置	無連接到主電源	符合
1.7.2.3	過電流保護裝置		不適用
1.7.2.4	IT 電源配線系統		不適用
1.7.2.5	操作者使用工具可觸及零件		不適用
1.7.2.6	臭氧		不適用
1.7.3	短時間操作		不適用
1.7.4	電壓調整.....:		不適用
	電源調整方式須清楚標示於維護手冊或安裝說明內		不適用
1.7.5	設備電源輸出.....:		不適用
1.7.6	熔線識別.....:		不適用
1.7.7	配線端子		不適用
1.7.7.1	保護接地端子.....:		不適用
1.7.7.2	外部交流電源導線之端子		不適用
1.7.7.3	外部直流電源導線之端子		不適用
1.7.8	控制器與指示器		不適用
1.7.8.1	識別、裝置與標示.....:		不適用

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條款	要求 + 試驗	結果 - 觀察	判定
1.7.8.2	顏色..... :		不適用
1.7.8.3	符號..... :		不適用
1.7.8.4	以圖標示		不適用
1.7.9	複合電源間之絕緣	III 類設備	不適用
1.7.10	恆溫器及其他穩定裝置..... :	無此設備	不適用
1.7.11	耐久性	標籤的耐久性測試，標籤用浸泡過石油醚的布擦拭持續 15 秒，再重複 1 次持續 15 秒擦拭。試驗後，標籤銘板是沒有損傷，標籤上的標示無退色，亦無捲曲或脫落	符合
1.7.12	可移除之零組件		符合
1.7.13	可更換之電池		符合
	語言..... :	英文	—
1.7.14	為限制觸及場所之設備..... :	非此類設備	不適用

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條款	要求 + 試驗	結果 - 觀察	判定
2	危險之保護		符合
2.1	防電擊及能量危險之保護		符合
2.1.1	操作者可觸及區域之保護	設備由認可電源供應器之 SELV 電壓供電，內部無危險電壓產生	符合
2.1.1.1	帶電部位之接觸		符合
	目視檢查.....：	SELV 迴路	符合
	以試驗指試驗之 (參照圖 2A).....：		不適用
	以試驗針試驗之 (參照圖 2B).....：		不適用
	以試驗棒試驗之 (參照圖 2C).....：		不適用
2.1.1.2	電池裝配閘		不適用
2.1.1.3	接觸 ELV 配線	無操作者可接觸 ELV 電路配線	不適用
	工作電壓 (V peak 或 V r.m.s); 最小絕緣厚度.....：		—
2.1.1.4	接觸危險電壓電路配線	無危險電壓配線於操作者可接觸區域	不適用
2.1.1.5	能量危險.....：	無危險能量於操作者可接觸區域。	不適用
2.1.1.6	手動控制	無此零件	不適用
2.1.1.7	設備電容器放電	無此零件	不適用
	測量電壓 (V); 時間常數 (s).....：		—
2.1.1.8	設備直流電源輸入造成危險能量的要求		不適用
	a) 連接到直流電源供應器的電容器.....：		不適用
	b) 連接到直流電源供應器的內部電池.....：		不適用
2.1.1.9	在資訊技術設備中的音頻放大器.....：		不適用
2.1.2	維修可觸及區域的保護		不適用
2.1.3	限制觸及場所的保護		不適用
2.2	SELV 電路		符合
2.2.1	一般規定	供電電源為 SELV，產品無危險電壓	符合

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條款	要求 + 試驗	結果 - 觀察	判定
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2.2.2	正常條件下的電壓 (V).....:	產品由 SELV 電源供電，且內部無昇壓迴路	不適用
2.2.3	故障條件下的電壓 (V).....:	產品由 SELV 電源供電，且內部無昇壓迴路	不適用
2.2.4	SELV 電路與其他電路之連接.....:	SELV 電路只能連接到其它 SELV 電路	符合

2.3	TNV 電路		不適用
2.3.1	限制值	無 TNV 線路	不適用
	TNV 電路形式		—
2.3.2	與其他電路及與可觸及部位之隔離		不適用
2.3.2.1	一般要求		不適用
2.3.2.2	由基本絕緣提供保護		不適用
2.3.2.3	由接地提供保護		不適用
2.3.2.4	由其他結構提供保護		不適用
2.3.3	與危險電壓之隔離		不適用
	絕緣形式.....:		—
2.3.4	TNV 電路與其他電路之連接		不適用
	絕緣形式.....:		—
2.3.5	外部產生之操作電壓的試驗		不適用

2.4	限電流電路		不適用
2.4.1	一般規定		不適用
2.4.2	限制值		不適用
	頻率 (Hz)		—
	量測電流 (mA)		—
	量測電壓 (V)		—
	量測電容值 (nF 或 μ F)		—
2.4.3	限電流電路與其他電路之連接		不適用

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條款	要求 + 試驗	結果 - 觀察	判定
2.5	電力限制型電源		不適用
	a) 輸出固有限制者		不適用
	b) 阻抗限制之輸出者		不適用
	c) 調節電路限制輸出者，於正常操作條件下及調結電路發生單一故障時		不適用
	d) 有過電流保護裝置輸出限制值		不適用
	輸出電壓 (V)，輸出電流 (A)，視在功率 (VA):		—
	過電流保護裝置之額定電流值:		—
2.6	接地及搭接保護		不適用
2.6.1	保護接地	III 類設備	不適用
2.6.2	功能性接地		不適用
2.6.3	保護接地及保護搭接導體		不適用
2.6.3.1	一般		不適用
2.6.3.2	保護接地導體的尺寸		不適用
	額定電流 (A)，最小導體尺寸 (截面積 mm ²) AWG...:		—
2.6.3.3	保護搭接導體的尺寸		不適用
	額定電流 (A)，最小導體尺寸 (截面積 mm ²) AWG...:		—
	保護額定電流 (A)，截面積 (mm ²) AWG:		—
2.6.3.4	接地導體及其終端之阻抗 (Ω)，測試電流 (A):		不適用
2.6.3.5	絕緣顏色.....:		不適用
2.6.4	端子		不適用
2.6.4.1	一般		不適用
2.6.4.2	保護接地與搭接端子		不適用
	額定電流 (A)，型式及最小標稱螺紋直徑.....:		—
2.6.4.3	自保護搭接導體與保護接地導體的隔離		不適用
2.6.5	保護接地的完整性		不適用
2.6.5.1	設備的互連		不適用
2.6.5.2	保護接地導體與保護搭接導體的零組件		不適用

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2.6.5.3	保護接地的移開		不適用
2.6.5.4	操作者可以移除的零組件		不適用
2.6.5.5	維護期間移動的零組件		不適用
2.6.5.6	抗蝕性		不適用
2.6.5.7	保護搭接的螺釘		不適用
2.6.5.8	電信網路或電纜配線系統的信賴性		不適用

2.7	一次側電路接地不良及過電流		不適用
2.7.1	基本規定	III 類設備	不適用
	使用說明書說明當設備依賴設備以外保護裝置使用		不適用
2.7.2	非第 5.3.7 節所規定之故障		不適用
2.7.3	短路備用保護		不適用
2.7.4	保護裝置之位置及數量		不適用
2.7.5	多重保護裝置		不適用
2.7.6	對維修人員之警告標示		不適用

2.8	安全互鎖		不適用
2.8.1	一般原則	無安全聯鎖裝置	不適用
2.8.2	保護規定		不適用
2.8.3	非故意的重置		不適用
2.8.4	故障時的安全操作		不適用
2.8.5	可動部位		不適用
2.8.6	互鎖之解除		不適用
2.8.7	開關與繼電器		不適用
2.8.7.1	接點間隙 (mm)		不適用
2.8.7.2	過負載試驗		不適用
2.8.7.3	耐久試驗		不適用
2.8.7.4	耐電壓試驗		不適用

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2.8.8	機械制動器		不適用
2.9	電氣絕緣		符合
2.9.1	絕緣材料的特性	不使用天然橡膠、吸濕性材料或石棉	符合
2.9.2	濕度條件	III 類設備	不適用
	相對濕度 (%), 溫度 (°C)		—
2.9.3	絕緣等級	功能性絕緣	符合
2.9.4	與危險電壓的隔離		不適用
	使用方法		—
2.10	空間距離、沿面距離及絕緣厚度		符合
2.10.1	通則	僅功能性絕緣	符合
2.10.1.1	頻率		不適用
2.10.1.2	汙染等級		不適用
2.10.1.3	功能性絕緣的降低值	見條文 5.3.4	符合
2.10.1.4	插入未連接的導體部分		不適用
2.10.1.5	不同面積的絕緣		不適用
2.10.1.6	特殊隔離要求		不適用
2.10.1.7	產生起始脈衝電路中的絕緣		不適用
2.10.2	工作電壓之決定		不適用
2.10.2.1	通則		不適用
2.10.2.2	RMS 工作電壓		不適用
2.10.2.3	峰值工作電壓		不適用
2.10.3	空間距離		符合
2.10.3.1	通則		符合
2.10.3.2	主電源暫態過電壓		不適用
	(a) 交流電源		不適用
	(b) 接地的直流電源		不適用

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	(c) 未接地的直流電源.....:		不適用
	(d) 電池操作設備.....:		不適用
2.10.3.3	一次測電路中之空間距離		不適用
2.10.3.4	二次測電路之空間距離		不適用
2.10.3.5	具有起始脈衝電路的空間距離		不適用
2.10.3.6	來自交流電源供應器的暫態.....:		不適用
2.10.3.7	來自直流電源供應器的暫態.....:		不適用
2.10.3.8	來自電信網路及電纜配線系統的暫態.....:		不適用
2.10.3.9	暫態電壓為準之量測		不適用
	a) 交流電源中的暫態		不適用
	對於交流電源供應器.....:		不適用
	對於直流電源供應器.....:		不適用
	b) 電信網路的暫態		不適用
2.10.4	沿面距離		符合
2.10.4.1	通則		符合
2.10.4.2	材料類組與耐壓電痕指數		不適用
	耐壓電痕指數測試.....:		—
2.10.4.3	最小的沿面距離		符合
2.10.5	固體絕緣		不適用
2.10.5.1	通則		不適用
2.10.5.2	穿透絕緣物的最小厚度		不適用
2.10.5.3	絕緣化合物用做固體絕緣		不適用
2.10.5.4	半導體元件		不適用
2.10.5.5	接合劑接合		不適用
2.10.5.6	薄片狀材料 - 通則		不適用
2.10.5.7	可分離的薄片狀材料的要求		不適用
	層數		—
2.10.5.8	不可分離的薄片狀材料的要求		不適用

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2.10.5.9	薄片狀材料 - 標準試驗程序		不適用
	耐壓測試		—
2.10.5.10	薄片狀材料 - 替代性試驗程序		不適用
	耐壓測試		—
2.10.5.11	繞線式元件中的絕緣		不適用
2.10.5.12	繞線式元件中的導線		不適用
	工作電壓.....:		不適用
	a) 非機械應力的基本絕緣.....:		不適用
	b) 基本絕緣, 補充絕緣, 強化絕緣.....:		不適用
	c) 符合附錄 U 的要求.....:		不適用
	當兩電線於繞線零組件中接觸者/兩者之間呈現 45° 及 90° 角度.....:		不適用
2.10.5.13	繞線式元件中含溶劑型漆的導線		不適用
	耐壓測試		—
	例行測試		不適用
2.10.5.14	繞線元件中額外絕緣		不適用
	工作電壓.....:		不適用
	非機械應力的基本絕緣.....:		不適用
	補充絕緣, 加強絕緣.....:		不適用
2.10.6	印刷電路板的結構		符合
2.10.6.1	無塗裝的印刷電路板		符合
2.10.6.2	塗裝之印刷電路板		不適用
2.10.6.3	在印刷電路板相同內層表面的導體間的絕緣		不適用
2.10.6.4	在印刷電路板不同表面的導體間的絕緣		不適用
	穿透絕緣距離		不適用
	絕緣層的數量.....:		不適用
2.10.7	零組件外部端子		不適用
2.10.8	塗裝印刷電路板和塗裝元件上的試驗		不適用
2.10.8.1	樣品準備及預備試驗		不適用

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2.10.8.2	熱處理		不適用
2.10.8.3	耐電壓試驗		不適用
2.10.8.4	抗磨損試驗		不適用
2.10.9	熱循環試驗		不適用
2.10.10	對於汙染等級 1 的環境及絕緣化合物的試驗		不適用
2.10.11	對於半導體元件及接合劑接合試驗		不適用
2.10.12	包覆及密封的部分		不適用

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條款	要求 + 試驗	結果 - 觀察	判定
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3	配線、接線與電源		符合
3.1	通則		符合
3.1.1	電流定額與過電流保護		符合
3.1.2	機械傷害之保護		符合
3.1.3	內部配線的安全性		符合
3.1.4	導體的絕緣		不適用
3.1.5	碍子與陶瓷絕緣物		不適用
3.1.6	電氣接觸壓力用之螺釘		不適用
3.1.7	電氣連接的絕緣材料		不適用
3.1.8	自攻螺絲與間距螺紋螺釘		不適用
3.1.9	導體的終接		符合
3.1.10	配線上的套管		不適用

3.2	交流電源或直流電源之連接		不適用
3.2.1	連接方式	III 類設備	不適用
3.2.1.1	交流電源之連接		不適用
3.2.1.2	直流電源之連接		不適用
3.2.2	多電源連接		不適用
3.2.3	永久性連接設備		不適用
	導體數目/電纜及導線的直徑 (mm)		—
3.2.4	電器插接器 (Appliance inlet)		不適用
3.2.5	電源線		不適用
3.2.5.1	交流電源線		不適用
	型式		—
	設備的額定電流 (A) /截面積(mm2), AWG.....		—
3.2.5.2	直流電源線		不適用
3.2.6	電線固定座及抗拉力		不適用
	設備的重量 (Kg) / 拉力 (N)		—

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	縱向位移 (mm)		—
3.2.7	機械傷害的保護		不適用
3.2.8	電源線保護套		不適用
	直徑或扁平線最小尺度 D (mm) ; 測試重量 (g):		—
	電源線的曲率半徑 (mm)		—
3.2.9	電源配線空間		不適用

3.3	外接電源供應器一次側導線之配線端子		不適用
3.3.1	配線端子		不適用
3.3.2	不可分離式電源線之連接		不適用
3.3.3	螺釘端子		不適用
3.3.4	連接用導體尺寸		不適用
	設備的額定電流 (A) / 導體型式/截面積 (mm ²)		—
3.3.5	配線端子尺寸		不適用
	設備的額定電流 (A) / 端子型式及標稱螺紋直徑(mm)		—
3.3.6	配線端子設計		不適用
3.3.7	配線端子的歸類		不適用
3.3.8	絞線		不適用

3.4	電源之切離		不適用
3.4.1	一般規定		不適用
3.4.2	切離裝置		不適用
3.4.3	永久連接設備		不適用
3.4.4	殘留能量之零組件		不適用
3.4.5	可撓線上的開關		不適用
3.4.6	單相與直流設備		不適用
3.4.7	三相設備		不適用
3.4.8	切離裝置用的開關		不適用

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3.4.9	切離裝置用的插頭		不適用
3.4.10	互連設備		不適用
3.4.11	多電源設備		不適用

3.5	設備間之互連		符合
3.5.1	一般規定	如下所示	符合
3.5.2	互連電路之型式	僅通過 SELV 作為互連的連接器	符合
3.5.3	以 ELV 電路為互連電路	無 ELV 電路	不適用
3.5.4	供給額外設備的資料埠		不適用

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4	物理性要求		符合
4.1	穩定性		符合
	傾斜 10° 角	無危險	符合
	測試：力 (N)	設備小於 25 公斤，且不是落地型設備	不適用

4.2	機械強度		符合
4.2.1	通則	III 類設備	不適用
4.2.2	10 N 穩定力		不適用
4.2.3	30 N 穩定力		不適用
4.2.4	250 N 穩定力		符合
4.2.5	撞擊試驗		不適用
	垂直衝擊試驗		不適用
	鐘擺試驗		不適用
4.2.6	落下試驗 (mm)	1000mm	符合
4.2.7	應力釋出	73°C	符合
4.2.8	陰極射線管		不適用
	陰極射線管單獨認證		不適用
4.2.9	高壓燈泡		不適用
4.2.10	壁掛式或吸頂式設備		不適用

4.3	設計與結構		符合
4.3.1	銳邊及銳角	產品之外部均為圓滑表面，無銳邊及銳角	符合
4.3.2	手把與手控操作器	無把手及手動控制器	不適用
4.3.3	可調控制器	無危險產生	不適用
4.3.4	零件固定	無鬆開產生空間，沿面距離減少	符合
4.3.5	插接器連接	僅 SELV 連接器	不適用

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4.3.6	直接插入式設備		不適用
	力矩 (Nm)		—
	符合相關插頭標準		不適用
4.3.7	已接地設備發熱元件		不適用
4.3.8	電池		符合
	充電電池之過充		不適用
	非充電電池之非故意的充電	(詳見附表 4.3.8)	符合
	充電電池的逆向充電		不適用
	電池之過度放電速率	(詳見附表 4.3.8)	符合
4.3.9	油與油性物質	無此零件	不適用
4.3.10	灰塵，粉末，液體及氣體	無此零件	不適用
4.3.11	液體或氣體容器	無此零件	不適用
4.3.12	可燃性液體	無此類物質	不適用
	液體數量 (l)		—
	燃點 (°C).....		—
4.3.13	輻射	如下所示	符合
4.3.13.1	通則	見條文 4.3.13.5.2	符合
4.3.13.2	游離輻射	無游離輻射產生	不適用
	量測的輻射量 (pA/kg)		—
	量測的高電壓 (kV).....		—
	量測的焦點電壓 (kV).....		—
	陰極射線管的標示.....		—
4.3.13.3	紫外線輻射對材料的影響	無紫外線輻射產生	不適用
	待測零件，強度，衝擊及耐燃等級.....	無紫外線輻射產生	不適用
4.3.13.4	人體曝露於紫外線 (UV) 輻射	如下所示	不適用
4.3.13.5	雷射 (包括雷射二極體) 及發光二極體	LED	符合
4.3.13.5.1	雷射 (包括雷射二極體)		不適用
	雷射等級.....		—

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4.3.13.5.2	發光二極體 (LED)	LED 頭燈符合 IEC 62471 為 Risk 1 group	符合
4.3.13.6	其他型式.....:		不適用

4.4	可動部位危險之保護		符合
4.4.1	通則		符合
4.4.2	操作者可觸及區域之保護.....:	詳見附表 5.3	不適用
4.4.3	限制觸及場所之保護.....:		不適用
4.4.4	維修可觸及區域之保護		符合

4.5	溫升規定		符合
4.5.1	通則	(詳見附表 4.5)	符合
4.5.2	溫度試驗	(詳見附表 4.5)	符合
	根據附錄 L 之正常負載條件.....:	正常最大負載	—
4.5.3	材料的溫度限制	(詳見附表 4.5)	符合
4.5.4	碰觸溫度限制	(詳見附表 4.5)	符合
4.5.5	耐異常高溫.....:		不適用

4.6	外殼開孔		符合
4.6.1	頂部及側面開孔		不適用
	尺寸 (mm).....:		—
4.6.2	防火外殼底部		不適用
	底部的結構、尺寸(mm).....:		—
4.6.3	防火外殼內的門或外蓋		不適用
4.6.4	可攜式設備之開孔	無開孔	符合
4.6.4.1	結構的設計對側		不適用
	尺寸 (mm).....:		—
4.6.4.2	大開孔對策的評估		不適用
4.6.4.3	金屬化處理的使用		不適用

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4.6.5	結構目的之黏膠		不適用
	條件溫度 (C), 時間 (週)		—
4.7	防制起火		符合
4.7.1	減少起火與延燃之危險		符合
	方法 1 – 選擇與應用零組件、線材與材料	(詳見附表 4.7)	符合
	方法 2 – 用於所有故障狀態		不適用
4.7.2	防火外殼條件		符合
4.7.2.1	須防火外殼之零件		符合
4.7.2.2	不須防火外殼之零組件		不適用
4.7.3	材料		符合
4.7.3.1	通則	(詳見附表 1.5.1)	符合
4.7.3.2	防火外殼材料	(詳見附表 1.5.1)	符合
4.7.3.3	防火外殼外部的零組件與其他零件材料		符合
4.7.3.4	防火外殼內之零組件與其他零件材料		符合
4.7.3.5	空氣濾清器材料	無此零件	不適用
4.7.3.6	高電壓零組件材料	無此零件	不適用

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5	電氣規定及模擬異常狀態		符合
5.1	接觸電流與保護導體電流		不適用
5.1.1	通則		不適用
5.1.2	待測設備的配置 (EUT)		不適用
5.1.2.1	單一連接到交流電源供應		不適用
5.1.2.2	重複多組連接到交流電源供應		不適用
5.1.2.3	同時多組連接到交流電源供應		不適用
5.1.3	試驗電路		不適用
5.1.4	量測儀器應用		不適用
5.1.5	試驗程序		不適用
5.1.6	試驗量測		不適用
	試驗電壓 (V)		—
	量測接觸電流 (mA)		—
	最大允許接觸電流(mA).....		—
	量測保護導體電流 (mA)		—
	最大允許保護導體電流 (mA)		—
5.1.7	接觸電流超出 3.5mA 設備		不適用
5.1.7.1	通則		不適用
5.1.7.2	同時多組的連接電源		不適用
5.1.8	源自於或進入電信網路及電纜配線系統之接觸電流		不適用
5.1.8.1	進入電信網路及電纜配線系統之接觸電流限制值		不適用
	試驗電壓 (V)		—
	量測接觸電流 (mA)		—
	最大允許接觸電流 (mA).....		—
5.1.8.2	自電信網路接觸電流的總和		不適用
	a) 待測設備具已接地電信埠		不適用
	b) 待測設備具已接地電信埠無參照保護接地		不適用

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5.2	耐電壓		不適用
5.2.1	通則		不適用
5.2.2	試驗步驟		不適用
5.3	異常操作與故障狀態		符合
5.3.1	過載與異常操作保護	詳見附表 5.3	符合
5.3.2	電動機	詳見附表 5.3	符合
5.3.3	變壓器		不適用
5.3.4	功能性絕緣	功能性絕緣，符合方法(c)之要求	符合
5.3.5	電氣機械零組件	無此零件	不適用
5.3.6	資訊技術設備中的聲音擴大器		不適用
5.3.7	模擬故障狀態	(詳見附表 5.3)	符合
5.3.8	無須照料設備	無此零件	不適用
5.3.9	異常操作與故障狀態之符合性規定	如下所示	符合
5.3.9.1	測試過程中的評估	無起火，無熔融的金屬，無危險	符合
5.3.9.2	測試完成後的評估		不適用

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條款	要求 + 試驗	結果 - 觀察	判定
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6	連結至電信網路		不適用
6.1	電信網路維修人員及其他連接至網路設備之使用者對於設備產生危險之保護		不適用
6.1.1	危險電壓之保護		不適用
6.1.2	電信網路與接地之隔離		不適用
6.1.2.1	規定		不適用
	試驗電壓 (V)		—
	試驗電路中的電流 (mA)		—
6.1.2.2	除外條款		不適用

6.2	電信網路上設備使用者之過電壓防護		不適用
6.2.1	隔離之要求		不適用
6.2.2	耐電壓試驗程序		不適用
6.2.2.1	脈衝試驗		不適用
6.2.2.2	穩態試驗		不適用
6.2.2.3	符合性標準		不適用

6.3	電信網路線材過熱保護		不適用
	最大輸出電流 (A)		—
	電流限制機制		—

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7	連結至電纜配線系統		不適用
7.1	通則		不適用
7.2	電纜配線系統之維修人員及使用連接有線配系統設備之使用者對設備內危險電壓之保護		不適用
7.3	電纜配線系統上設備使用者之過電壓保護		不適用
7.4	一次側電路與電纜配線系統間之絕緣		不適用
7.4.1	通則		不適用
7.4.2	突波電壓試驗		不適用
7.4.3	脈衝試驗		不適用

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附錄

A	附錄 A – 耐熱及防火試驗		不適用
A.1	總重超過 18Kg 的移動型設備和固定型設備的防火外殼之耐燃性試驗 (參照第 4.7.3.2 節)		不適用
A.1.1	試片		—
	試片厚度 (mm)		—
A.1.2	試片前處理條件；溫度 (°C).....		不適用
A.1.3	試片之固定方式.....		不適用
A1.4	試驗火燄		不適用
	火燄 A, B, C 或 D		—
A.1.5	試驗程序		不適用
A.1.6	符合性標準		不適用
	試片 1 的燃燒時間 (s)		—
	試片 2 的燃燒時間 (s)		—
	試片 3 的燃燒時間 (s)		—
A.2	總重量不超過 18Kg 的可移動之設備之防火外殼耐燃性試驗，及位於防火罩中之零件、材料 (第 4.7.3.2 節、第 4.7.3.4 節)		不適用
A.2.1	試片		—
	試片厚度 (mm)		—
A.2.2	試片前處理條件；溫度 (°C).....		不適用
A.2.3	試片之固定方式.....		不適用
A.2.4	試驗火燄		不適用
	火燄 A, B 或 C		—
A.2.5	試驗程序		不適用
A.2.6	符合性標準		不適用
	試片 1 的燃燒時間 (s).....		—
	試片 2 的燃燒時間 (s).....		—
	試片 3 的燃燒時間 (s).....		—
A.2.7	可替代性試驗 (根據 CNS 14545-8 第 4 及 8 節)		不適用

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條款	要求 + 試驗	結果 - 觀察	判定
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	試片 1 的燃燒時間 (s).....:		—
	試片 2 的燃燒時間 (s).....:		—
	試片 3 的燃燒時間 (s).....:		—
A.3	熱燃油試驗 (見 4.6.2 章節)		不適用
A.3.1	固定樣品		不適用
A.3.2	試驗程序		不適用
A.3.3	符合性標準		不適用

B	附錄 B – 電動機異常條件試驗 (參照第 4.7.2.2 節 和 5.3.2 節)		符合
B.1	一般規定		符合
	位置	詳見附表 1.5.1	—
	製造者	詳見附表 1.5.1	—
	型號	詳見附表 1.5.1	—
	額定值	詳見附表 1.5.1	—
B.2	試驗條件		不適用
B.3	最高溫度		不適用
B.4	過載運轉試驗		不適用
B.5	鎖定轉子過載試驗		不適用
	試驗持續時間 (天)		—
	電氣強度試驗：試驗電壓 (V)		—
B.6	在二次側電路內之直流電動機過負載運轉試驗		不適用
B.6.1	通則		不適用
B.6.2	試驗程序		不適用
B.6.3	替代試驗程序		不適用
B.7	在二次側電路內之直流電動機鎖定過載試驗		不適用
B.7.1	通則		不適用
B.7.2	試驗程序		不適用
B.7.3	替代用試驗程序		不適用

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B.7.4	耐電壓試驗		不適用
B.8	具電容器之電動機試驗		不適用
B.9	三相電動機之試驗		不適用
B.10	串激電動機之試驗		不適用
	工作電壓(V)		—

C	附錄 C – 變壓器 (參照 1.5.4 及 5.3.3 節)		不適用
	位置		—
	製造者		—
	型號		—
	額定值		—
	保護的方法		—
C.1	過載試驗		不適用
C.2	絕緣		不適用
	繞組或其線圈匝位移的預防措施		不適用

D	附錄 D – 接觸電流之量測儀器 (參照 5.1.4 節)		不適用
D.1	量測儀器		不適用
D.2	替代的量測儀器		不適用

E	附錄 E – 繞組之溫升 (參照 1.4.13 節)		不適用
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F	附錄 F – 沿面距離與空間距離之量測 (參照 2.10 節 及 附錄 G)		不適用
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G	附錄 G – 決定最小空間距離之替代方法		不適用
G.1	空間距離		不適用
G.1.1	通則		不適用
G.1.2	決定最小空間距離程序概述		不適用
G.2	決定電源暫態電壓 (V)		不適用

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G.2.1	交流電源.....:		不適用
G.2.2	接地的直流電源供應器.....:		不適用
G.2.3	無接地的直流電源供應器.....:		不適用
G.2.4	電池操作.....:		不適用
G.3	電信網路暫態電壓 (V).....:		不適用
G.4	耐電壓值之規格 (V)		不適用
G.4.1	主電源及內部暫態電壓.....:		不適用
G.4.2	電信網路暫態電壓.....:		不適用
G.4.3	組合暫態電壓		不適用
G.4.4	自配線系統的暫態電壓		不適用
G.5	暫態電壓位準之量測 (V)		不適用
	a) 電源供應器的暫態電壓		不適用
	對交流電源供應		不適用
	對直流電源供應		不適用
	b) 電信網路的暫態電壓		不適用
G.6	最小空間距離.....:		不適用
H	附錄 H – 游離輻射 (參照 4.3.13 節)		不適用
J	附錄 J – 電化學電位表 (參照 2.6.5.6 節)		不適用
	金屬 (s) 使用.....:		—
K	附錄 K – 溫度控制器 (參照 1.5.3 及 5.3.8 節)		不適用
K.1	接通及切離容量		不適用
K.2	恆溫器之可靠度；操作電壓 (V).....:		不適用
K.3	恆溫器之耐久性；操作電壓 (V).....:		不適用
K.4	溫度限制器之耐久性；操作電壓 (V).....:		不適用
K.5	熱動斷路器之可靠度		不適用
K.6	操作穩定性		不適用

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條款	要求 + 試驗	結果 - 觀察	判定

L	附錄 L – 某些商業用電氣產品之正常負載狀態 (參照 1.2.2.1 及 4.5.2 節)		符合
L.1	打字機		不適用
L.2	加算機及收銀機		不適用
L.3	擦拭機		不適用
L.4	削鉛筆機		不適用
L.5	複印機及影印機		不適用
L.6	電動檔案機		不適用
L.7	其他商業機器	最大正常負載	符合

M	附錄 M – 電話機振鈴信號準則 (參照 2.3.1 節)		不適用
M.1	說明		不適用
M.2	方法 A		不適用
M.3	方法 B		不適用
M.3.1	振鈴信號		不適用
M.3.1.1	頻率 (Hz)		—
M.3.1.2	電壓 (V)		—
M.3.1.3	間歇振鈴；時間 (s)；電壓 (V)		—
M.3.1.4	單一故障電流 (mA)		—
M.3.2	制動裝置及監視用電壓		—
M.3.2.1	制動裝置及監視用電壓之使用狀況		不適用
M.3.2.2	跳脫裝置		不適用
M.3.2.3	監視用電壓 (V)		不適用

N	附錄 N – 脈衝試驗產生器 (參照第 1.5.7.2 節、第 1.5.7.3 節、第 2.10.3.9 節 6.2.2.1 節、7.3.2 節、7.4.3 節 和第 G.5 節)		不適用
N.1	ITU-T 脈衝試驗產生器		不適用
N.2	CNS14408 脈衝試驗產生器		不適用

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P	附錄 P - 引用標準	—	
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Q	附錄 Q - 變阻器(VDRs) (參照第 1.5.9.1 節)		不適用
	a) 環境溫度類型		不適用
	b) 最大連續電壓		不適用
	c) 脈衝電流		不適用

R	附錄 R - 品質管制計劃範例		不適用
R.1	無防焊塗劑印刷電路板之最小距離 (參照第 2.10.6.2 節)		不適用
R.2	縮減空間距離 (參照第 2.10.3 節)		不適用

S	附錄 S - 脈衝試驗程序 (參照第 6.2.2.3 節)		不適用
S.1	試驗設備		不適用
S.2	試驗程序		不適用
S.3	試驗中之波形		不適用

T	附錄 T - 防水保護等級標準 (參照第 1.1.2 節)		符合
		IP64 , SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Test report No.: GZHL2108033791HM	—

U	附錄 U - 無套絕緣套管之絕緣繞線 (參照第 2.10.5.4 節)		不適用
	獨立的測試報告		—

V	附錄 V - 交流電源配線系統		不適用
V.1	說明		不適用
V.2	TN 配電系統		不適用

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V.3	TT 配電系統		不適用
V.4	IT 配電系統		不適用

W	附錄 W – 接觸電流之加總		不適用
W.1	電子電路之接觸電流		不適用
W1.1	浮接電路		不適用
W.1.2	接地電路		不適用
W.2	許多設備互連		不適用
W.2.1	隔離		不適用
W.2.2	與大地隔離的共同回路		不適用
W.2.3	連接至保護接地的共同回路		不適用

X	附錄 X – 變壓器試驗之最高熱效應 (參照第 C.1 節)		不適用
X.1	最大輸入電流測定		不適用
X.2	過載試驗程序		不適用

Y	附錄 Y – 紫外線環境的試驗 (參照第 4.3.13.3 節)		不適用
Y.1	試驗器具.....:		不適用
Y.2	試驗樣品的安裝.....:		不適用
Y.3	石墨電弧曝光儀.....:		不適用
Y.4	氙電弧曝光儀.....:		不適用

Z	附錄 Z – 過電壓種類 (參照第 2.10.3.2 節 及 附錄 G.2)		不適用
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AA	附錄 AA – 轉軸試驗 (參照第 2.10.5.8 節)		不適用
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1.5.1	表格: 重要零件列表					符合
零件名稱	製造者/商標	型號	技術規格	認證標準	認證單位	
1.黃色塑膠外殼	CHI MEI CORPORATION	PA-763	V-0, Min. 1.5mm thickness	UL 94	UL E56070	
2.灰色塑膠外殼	SABIC INNOVATIVE PLASTICS B V	C6200(GG)	V-1, Min. 1.2mm thickness	UL 94	UL E45329	
3.Light Bar 塑膠外殼	GREAT EASTERN RESINS IND CO LTD	3095A-FR(S)	V-0, Min. 2.0mm thickness	UL 94	UL E85466	
4.黑色軟墊	Yibao(FUJIAN) Polymer Material Stock CO.,Ltd	YB-2535	V-0, Min. 1.0mm thickness	UL 94	UL E45329	
5.黑色軟墊背膠	NITTO DENKO CORP	5011N	VTM-0, Min. 0.12mm thickness	UL 94	UL E520752	
6.Power Button	GREAT EASTERN RESINS IND CO LTD	3095A-FR(S)	V-0, Min. 2.0mm thickness	UL 94	UL E85466	
7.照明用 LED 外殼	SABIC INNOVATIVE PLASTICS B V	C6200(GG)	V-1, Min. 1.2mm thickness	ANSI/UL 746C	UL E45329	
8.LED lens	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	LN-1250G(#)(*)	V-0, Min. 1.0mm thickness	ANSI/UL 746C	UL E244324	
9 照明用 LED module	BeelInventor Limited	Dasloop G2S	Risk 1 group	IEC 62471	SGS-CSTC Standards Technical Services., Ltd. Guangzhou Branch test report No:GZEE210 700145031	
10.PCB	Interchangeable	Interchangeable	Rated min. V-1, 130 °C	ANSI/UL 94 ANSI/UL 796	UL	

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1.5.1	表格: 重要零件列表					符合
零件名稱	製造者/商標	型號	技術規格	認證標準	認證單位	
11.RTC battery	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA	ML614*	Max Charging Current 100mA, Max Charging Voltage, 12V dc	UL 1642	UL MH12210	
12.Motor	惠州鑫宇機電有限公司	XL-0408L-60	Rated 1.5-3V, 0.13A max	--	--	
附註：						

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1.5.2	表格: 插頭刀片極型檢查及尺度量測										不適用
單刃 附圖 1(1) 曲形雙片⁽⁶⁾											
±單位: mm											
	A	B	C ⁽¹⁾	D	E	F	G	H	I	J	K
標示值	6.3±0.3	1.5±0.1	8±0.2	14.6max	12.7	10.8min	17±1.3	11.7±0.4	φ3.5min	φ3 ^{+0.3/-0.2}	0.9max
量測值	--	--	--	--	--	--	--	--	--	--	--
附註:											
(1): 無極性之刀片寬度同 A 尺寸要求。											

1.6.2		表格: 電氣數據 (在正常狀況下)					符合
輸入電壓 (Vdc)	輸入電流 (A)	額定電流 (A)	輸入功率 (W)	保險絲	流經保險 絲電流 (A)	測試狀況	
4.2	0.16	1	0.67	--	--	最大正常負載	
附註：							

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2.1.1.5	表格: 最大電壓 (V)、電流 (A) 及視在功率 (VA) 試驗					不適用
量測位置	額定電壓 (V)	額定電流 (A)	電壓 - 最大 (V)	電流- 最大 (A)	視在功率- 最大 (VA)	
--	--	--	--	--	--	
備註:						

2.2	表格：危險電壓測量			不適用
量測位置	最大電壓		電壓限制零組件	
	V peak	V dc		
--	--	--	--	
電壓限制元件故障測試	SELV 電路量測電壓 (V) (V peak or V d.c.)			
--	--			
備註：				

2.4.2	表格: 限電流電路 (LCC) 測量					不適用
量測位置	電壓 (V)	電流 (mA)	頻率 (Hz)	限制 (mA)	註解/說明	
--	--	--	--	--	--	
備註:						

2.5	表格: 電力限制型電源					不適用
測試模式	輸出電壓 Uoc (V)	輸出電流 Isc (A)		電力 VA		
		量測值	限制值	量測值	限制值	
--	--	--	--	--	--	
備註:						
產品外殼使用耐燃等級至少V-1的材料包覆電池及所有零組件, 故不需評估電池測試。						

2.6.3.4	表格：接地連續測試			不適用
測量位置		阻抗量測 (mΩ)	Voltage Drop (Volts)	註解/說明
--		--	--	--
備註：				

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2.10.2	表格：工作電壓測量			不適用
測量位置		RMS Voltage (V)	Peak Voltage (V)	註解/說明
--		--	--	--
備註：				

2.10.3 及 2.10.4	表格：空間距離與沿面距離測量						不適用
空間距離與沿面距離界於	U peak (V)	U r.m.s (V)	要求的空間距離 (mm)	實測的空間距離 (mm)	要求的沿面距離 (mm)	實測的沿面距離 (mm)	
--	--	--	--	--	--	--	
備註：							

2.10.5	表格：穿透絕緣物的最小厚度測量					不適用
絕緣穿透距離的位置	U peak (V)	U rms (V)	耐電壓測試 (V)	要求的厚度 (mm)	實測的厚度 (mm)	
--	--	--	--	--	--	
備註：						

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4.3.8	表格: 電池測試								符合
當測試數據不可用時應進行 4.3.8 評估						是		--	
電池是否於安裝時有可能極性相反?						否		--	
	不可充電之電池			可充電之電池					
	放電		非預期充電	充電		放電		反向充電	
	量測電流	額定規格		量測電流	額定規格	量測電流	額定規格	量測電流	額定規格
EUT battery									
正常模式下最大電流	--	--	--	--	--	0.16A	10A	--	--
異常模式下最大電流 U3 pin 10 to pin 8-9 短路	--	--	--	--	--	0.16A	10A	--	--
RTC battery									
正常模式下最大電流	--	--	3.0mA	--	--	--	--	--	--
異常模式下最大電流 D1 短路	--	--	3.3mA	--	--	--	--	--	--
異常模式下最大電流 R5 短路	--	--	0mA*	--	--	--	--	--	--
測試結果								判定	
- 電解液是否外漏						否		符合	
- 電池是否爆炸						否		符合	
- 是否有火焰或是鎔化金屬漫延至外殼以外						否		符合	
-於測試完成後進行耐電壓試驗						--		不適用	
備註: *: 產品保護，功能失效									

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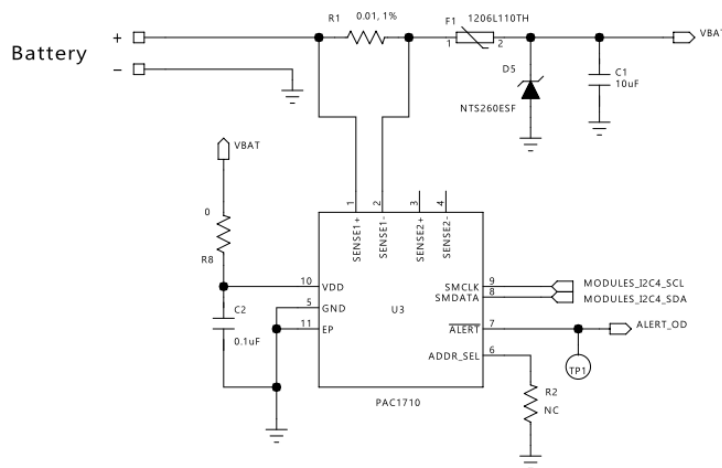
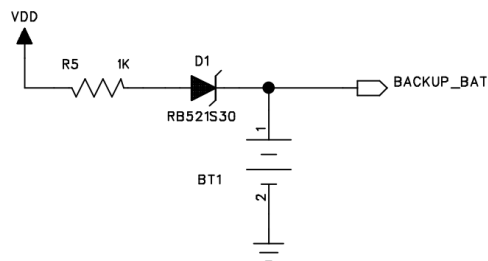
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條款	要求 + 試驗	結果 - 觀察	判定
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4.3.8**表格: 電池測試****符合**

電池種類.....: 詳見表格 1.5.1
 製造商.....: 詳見表格 1.5.1
 型號.....: 詳見表格 1.5.1
 電壓.....: 詳見表格 1.5.1
 容量.....: 詳見表格 1.5.1
 測試及認可.....: 詳見表格1.5.1
 保護線路.....: 詳見表格1.5.1

EUT battery**Battery Detection & Protection****RTC battery**

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條款	要求 + 試驗	結果 - 觀察	判定
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4.5	表格: 溫升值量測					符合
	測試電壓 (V)	3.6Vdc(battery pack)		--		—
	tamb1 (°C) :	23.7	Shift to 50°C	--	--	—
	tamb2 (°C) :	24.2		--		—
零件		最高溫度 T (°C)				允許溫度 Tmax (°C)
01. PCB near U2		25.8	51.9	--	--	105
02. PCB near U4		27.4	53.5	--	--	105
03. PCB near U1		27.8	53.9	--	--	105
04. Motor body		26.9	53.0	--	--	105
05. Battery body		25.7	51.8	--	--	100
06. Plastic enclosure inside near battery		26.0	52.1	--	--	--
07. Plastic enclosure outside near battery		25.9	52.0	--	--	75
08. Power button		25.9	52.0	--	--	95
09. LED button		34.4	60.5	--	--	95
10. LED plastic enclosure outside		37.5	63.6	--	--	95
11. Ambient		23.9	50.0	--	--	--
備註：						

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條款	要求 + 試驗	結果 - 觀察	判定

4.5.5	表格：熱塑塑膠的球壓試驗		不適用
	允許的壓痕直徑 (mm).....	≤ 2 mm	—
	零組件	試驗溫度 (°C)	壓痕直徑 (mm)
	--	--	--
備註：			

4.7	表格：防制起火				符合
	位置	材料製造商	材料型號	厚度 (mm)	耐燃等級
	--	--	--	--	--
備註：見附表1.5.1					

5.1	表格：接觸電流測量			不適用
	量測點	量測電流 (mA)	限制值 (mA)	註解/說明
	--	--	--	--
備註：				

5.2	表格：耐電壓試驗		不適用
	測試端點:	測試電壓 (V)	絕緣崩潰
	--	--	--
備註：			

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條款	要求 + 試驗	結果 - 觀察	判定
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5.3	表格:異常狀況測試						符合
	室溫 (°C) : 25 或見下表						—
	電源供應器的型號..... : 詳見表 1.5.1						—
	電源供應器的廠商..... : 詳見表 1.5.1						—
	電源供應器的電氣規格 : 詳見表 1.5.1						—
序號	零件編號	異常狀況	測試電壓 (V)	測試時間	保險絲編號	保險絲電流 (A)	測試結果
1	U9 Pin 1 to Pin4	短路	3.6Vdc	10 分鐘	--	--	產品保護 無損壞，無危險
2.	Motor	堵轉	3.0Vdc	7 小時 13 分鐘	--	--	Motor body:45.1°C Ambient:23.2 °C 無損壞，無危險
補充說明							
備註: Sc = Short circuit							

C.2	表格:變壓器						不適用
位置	絕緣等級	工作電壓 V peak (2.10.2)	工作電壓 Vrms (2.10.2)	電氣強度 要求 (5.2)	空間距離要 求 / mm (2.10.3)	沿面距離要 求 / mm (2.10.4)	最小絕緣厚 度要求 (2.10.5)
--	--	--	--	--	--	--	--
位置	絕緣等級			測試電壓/ V	量測空間距 離 / mm	絕緣距離要 求 dist./ mm	量測最小絕 緣厚度 / mm; number of layers
--	--			--	--	--	--
supplementary information:							

C.2	表格: 變壓器	不適用
--		

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附錄 - 測試儀器清單

INSTRUMENTATION RECORD DATA SHEET

設備編號	設備名稱	使用範圍	型號/製造商	校驗日期	建議校驗日期
ETL-0188	Temperature Recorder 溫度記錄器	Type T AWG26	DR 230/ YOKOGAWA	2021/04/07	2022/04/06
ETL-0199	Electronic Weight Scale 電子磅秤	150Kg Max.	MTC-150kg/10g / EXCELL	2021/10/6	2022/10/5
ETL-0248	Digital Force Gauges 推拉力計	2400N Max	FGE-500HX / SHIMPO	2020/12/17	2021/12/16
ETL-0253	Oven Chamber 無風烤箱	10~400℃	DS-61 / DENG YNG	2020/12/23	2021/12/22
ETL-0309	TRUE RMS MULTIMETER 數位三用電錶	1000V,10A	BM829 / BRYMEN	2021/03/13	2022/03/12
ETL-0402	Timer	24hours	HK-500	2020/12/25	2021/12/24
ETL-0454	捲尺	10m	10m	2021/04/15	2022/04/14
ETL-0630	游標卡尺/Digimatic caliper	0~150mm	500-196 / Mitutoyo	2021/07/07	2022/07/06

-- End of Report --

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