

Vinnic[®]

銀戰士電池



**0% Mercury Primary
Button Cell**

無汞一次性鈕扣電池



0% Mercury Primary Button Cell

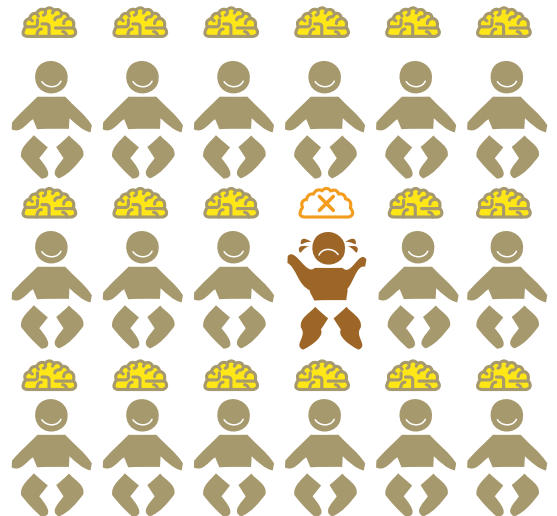
無汞一次性鈕扣電池

- 25 million children in the world were suffered from drinking of LEAD, MERCURY and CADMIUM contaminated water!
- Every 6 of thousand patients in the world were caused by the exposure of LEAD!
- There are around 600 thousands children in the world were mentally disable due to the exposure to LEAD!

Heavy metals such as lead, mercury and cadmium may have long-term impact on the health of human beings and other organisms. For example, lead poisoning can cause damage to the liver, kidneys, brain and even intellectual ability. Mercury poisoning can cause damage to the liver, skin and nervous system, whereas cadmium poisoning can lead to renal failure and osteomalacia.

- 每年世界約有2500萬名兒童，因為水污染而引發疾病，當中包括鉛中毒、汞中毒及鎘中毒！
- 由鉛接觸造成全球的疾病負擔就有0.6%！
- 估計每年由鉛接觸所導致的智力殘疾兒童約為60萬！

鉛、汞及鎘這幾種重金屬，對人類及其他生物的健康影響深遠，像鉛中毒會造成肝、腎、腦的損害，甚至智力永久受損！汞中毒可導致肝、皮膚同神經受損，而鎘中毒就會引起腎功能喪失、骨質軟化等問題！



Corporate video



公司短片



Product video



產品短片



WeChat



Weibo



Facebook



天貓

0% Mercury Primary Button Cell 無汞一次性鈕扣電池

0% 汞 MERCURY
鉛 LEAD
鎘 CADMIUM

Mercury-free and environment friendly
無汞與環保

Since 2004, Vinnic developed superior Primary Button Cell by using first-rank material. While the safety standard of heavy metal for mercury is 5 ppm, lead is 40 ppm and cadmium is 20 ppm, the relevant contents in Vinnic's Primary Button Cell are much lower than the standard. This is a further milestone in the development of high performance, reliable and environment friendly batteries.

Chung Pak has been keen on development of environment friendly batteries for over 40 years. And the fruitful achievement is devoted to our lovely earth, and our next generation.

2004年，銀戰士使用性能超卓的材料并研製出不同的配方，推出無汞鹼性及氧化銀鈕扣電池，做到無汞無鉛無鎘，汞含量遠低於5ppm，鉛含量遠低於40ppm，鎘含量遠低於20ppm，這是銀戰士研發高性能，安全可靠，環保電池的新里程碑。

為了地球，為了下一代，松柏在過去40多年致力生產無鉛無汞無鎘的環保高性能電池！



Alkaline Button Cell Series

鹼性鈕扣電池

0% Mercury

Quality

- Highest leakage resistance
- Constant voltage level
- Low self-discharge rate
- Long running time

品質

- 出色的防漏功能
- 電壓穩定
- 低自放電
- 電力持久

Chemical Structure:

Positive electrode - Manganese dioxide

Negative electrode - Zinc

Electrolyte - Potassium hydroxide

化學成份:

正極 - 二氧化錳

負極 - 鋅

電解液 - 氫氧化鉀

Applications

- Watches
- Medical devices
- Calculators
- Toys
- Remote controls
- Laser pointer

用途

- 手錶
- 醫療設備
- 計算器
- 玩具
- 遙控
- 激光指示器

0% Mercury Alkaline Manganese Dioxide Button Cell

無汞鹼性錳鈕扣型電池

Specifications 產品規格

Model no. 型號	Nominal voltage (V) 標稱電壓 (V)	Nominal capacity (mAh) 典型容量 (mAh)	Dimension 尺寸		Average weight (g) 平均重量 (g)
			Diameter (mm) 直徑 (mm)	Height (mm) 高度 (mm)	
L1154 F	1.5	170	11.6	5.4	2.00
L1560 F	1.5	140	15.4	6.15	3.38
L1142 F	1.5	115	11.6	4.2	1.52
L1131 F	1.5	83	11.6	3.05	1.13
L1121 F	1.5	43	11.6	2.1	0.82
L936 F	1.5	60	9.5	3.6	0.87
L932 F	1.5	45	9.5	3.2	0.76
L926 F	1.5	42	9.5	2.7	0.64
L921 F	1.5	29	9.5	2.1	0.54
L754 F	1.5	53	7.9	5.4	0.91
L736 F	1.5	43	7.9	3.6	0.62
L732 F	1.5	28	7.16	3.2	0.45
L726 F	1.5	28	7.9	2.6	0.45
L721 F	1.5	18	7.9	2.1	0.37
L626 F	1.5	18	6.8	2.6	0.32
L621 F	1.5	14	6.8	2.15	0.27
L526 F	1.5	10.5	5.8	2.6	0.26
L521 F	1.5	7.5	5.8	2.15	0.21

Cross Reference Guide 電池對照表

Item No. 型號	DIM(mm) 尺寸	IEC 型號	JIS 日本	ANSI 型號	Eveready 型號	Maxell 型號	Rayovac 型號	Varta 型號	Duracell 型號	Others
L1560 F	15.4x6.15	LR9	-	-	EPX625G	-	-	V625U	-	-
L1154 F	11.6x5.4	LR44	LR44	1166A	A76	LR44	A76	V13GA	PX76A	AG13
L1142 F	11.6x4.2	LR43	LR43	-	186	LR43	186	V12GA	D186A	AG12
L1131 F	11.6x3.05	LR54	LR1130	-	189	LR1130	189	V10GA	D189A	AG10
L1121 F	11.6x2.1	LR55	LR55	-	191	LR1120	191	V8GA	D191A	AG8
L936 F	9.5x3.6	-	-	-	-	-	-	-	-	AG9
L932 F	9.5x3.2	-	-	-	-	-	-	-	-	-
L926 F	9.5x2.7	-	-	-	-	-	-	-	-	AG7
L921 F	9.5x2.1	LR69	LR69	-	-	-	-	-	-	AG6
L754 F	7.9x5.4	LR48	-	-	193	-	-	-	-	AG5
L736 F	7.9x3.6	LR41	LR41	-	192	-	-	V3GA	-	AG3
L732 F	7.16x3.2	-	-	-	-	-	-	-	-	-
L726 F	7.9x2.6	-	-	-	196	-	-	-	-	AG2
L721 F	7.9x2.1	-	-	-	-	-	-	-	-	AG11
L626 F	6.8x2.6	LR66	LR66	-	376	-	-	-	-	AG4
L621 F	6.8x2.15	LR60	-	-	164	-	-	-	-	AG1
L526 F	5.8x2.6	-	-	-	-	-	-	-	-	-
L521 F	5.8x2.15	-	-	-	384	-	-	-	-	AG0



0% Mercury Primary Button Cell 無汞一次性鈕扣電池

Silver Oxide Button Cell

氧化銀鈕扣型電池

Chemical Structure:

Positive electrode - Silver Oxide

Negative electrode - Zinc

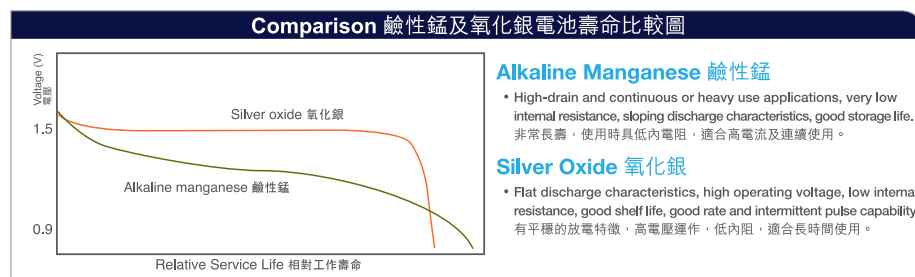
Electrolyte - Potassium hydroxide

化學成份:

正極 - 氧化銀

負極 - 鋅

電解液 - 氫氧化鉀



0% Mercury Silver Oxide Button Cell - High Drain

無汞氧化銀鈕扣電池-大電流放電

Specifications 產品規格

Type No 型號	IEC 型號	Dimension 尺寸		Nominal Voltage (V) 標稱電壓 (V)	Nominal Capacity (mAh) 標稱容量 (mAh)	Average weight (g) 平均重量 (g)
		Diameter (mm) 直徑 (mm)	Height (mm) 高度 (mm)			
357	SR44	11.6	5.4	1.55V	133	1.94
386	SR43	11.6	4.2	1.55V	100	1.50
389	SR54	11.6	3.05	1.55V	64	1.11
391	SR55	11.6	2.1	1.55V	40.5	0.79
380	/	9.5	3.6	1.55V	45	0.87
399	SR57	9.5	2.7	1.55V	36.9	0.65
370	SR69	9.5	2.1	1.55V	23.4	0.55
393	SR48	7.9	5.4	1.55V	50	0.92
392	SR41	7.9	3.6	1.55V	25.2	0.60
396	SR59	7.9	2.6	1.55V	24	0.44
361	SR58	7.9	2.1	1.55V	17.5	0.38
376	SR66	6.8	2.6	1.55V	17	0.35
363	SR60	6.8	2.15	1.55V	9	0.27
319	SR64	5.8	2.6	1.55V	10	0.25
379	SR63	5.8	2.15	1.55V	6.5	0.20

Silver Oxide Button Cell

氧化銀鈕扣型電池



0 % Mercury Silver Oxide Button Cell 無汞氧化銀鈕扣型電池

Cross Reference Guide 電池對照表

Item No. 型號	DIM(mm) 尺寸	IEC 型號	JIS 日本	ANSI 型號	Energizer 型號	Duracell 型號	Rayovac 型號	Renata 型號	Maxell 型號	Varta 型號	Others
357 EF 357 F	11.6x5.4	SR44	-	1131SO	357-303 MD -	D357 -	357 -	357 -	SR44W SR44SW	V357 MF -	SG13
303 EF 303 F	11.6x5.4	SR44	SR44	1107SO 1184SO	357-303 MD -	D303 -	303 -	303 -	SR44W SR44SW	V303 MF -	SG13
386 EF 386 F	11.6x4.2	SR43	SR43	1133SO 1132SO	386-301 MD 386-301 MD	D386 D301	386 301	386 301	SR43W SR43SW	V386 MF V301 MF	SG12
389 EF 389 F	11.6x3.1	SR54	-	1159SO 1158SO	390-389 MD 390-389 MD	D389 D390	389 390	389 390	SR1130W SR1130SW	V389 MF V390 MF	SG10
391 EF 391 F	11.6x2.1	SR55	SR55	1170SO 1160SO	391 381	D391 D381	391 381	391 381	SR1120W SR1120SW	V391 MF V381 MF	SG8
394 EF 394 F	9.5x3.6	SR45	-	-	- 394-380 MD	- D394	- 394	380 394	SR936W SR936SW	- V394 MF	SG9
395 EF 395 F	9.5x2.6	SR57	-	1165SO 1162SO	395-399 MD 395-399 MD	D399 D395	399 395	399 395	SR927W SR927SW	V399 MF V395 MF	SG7
371 EF 371 F	9.5x2.1	SR69	SR69	-	371-370 MD 371-370 MD	D370 D371	370 371	370 371	SR920W SR920SW	V370 MF V371 MF	SG6
393 EF 393 F	7.9x5.4	SR48	SR48	1137SO 1136SO	393 309	D393 D309	393 309	393 309	SR754W SR754SW	V393 MF V309 MF	SG5
392 EF 392 F	7.9x3.6	SR41	SR41	1135SO 1134SO	392-384 MD 392-384 MD	D392 D384	392 384	392 384	SR41W SR41SW	V392 MF V384 MF	SG3
397 EF 397 F	7.9x2.6	SR59	SR59	1164SO 1163SO	397-396 MD 397-396 MD	D396 D397	396 397	396 397	SR726W SR726SW	V396 MF V397 MF	SG2
362 EF 362 F	7.9x2.1	SR58	SR58	- 1158SO	362-361 MD 362-361 MD	D361 D362	361 362	361 362	SR721W SR721SW	V361 MF V362 MF	SG11
377 EF 377 F	6.8x2.6	SR66	SR66	1196SO 1173SO	377-376 MD 377-376 MD	- D377	- 377	376 377	SR626W SR626SW	- V377 MF	SG4
364 EF 364 F	6.8x2.15	SR60	SR60	- 1175SO	- 364-363MD	- D364	- 364	- 364	- SR621SW	- V364 MF	SG1
319 EF 319 F	5.8x2.6	SR64	-	-	- 319	- D319	- 319	- 319	- SR527SW	- V319 MF	-
379 EF 379 F	5.8x2.15	SR63	SR63	- 1191SO	- 379	- D379	- 379	- 379	- SR521SW	- V379 MF	-
S1325 EF	13x25.2	4SR44	-	1406SO	-	-	-	-	-	-	-

Watch Battery Series

手錶專用電池

0% Mercury Alkaline Manganese
Button Cell (Low Drain)
鹼性鈕扣電池(小電流放電)

0% Mercury Silver Oxide Button Cell
(Low Drain)
氧化銀鈕扣電池(小電流放電)

0% Mercury Silver Oxide Button Cell
Extra Silver (Low Drain)
氧化銀鈕扣電池-高銀(小電流放電)



Alkaline Manganese Button Cell (Watch Battery)

鹼性鈕扣電池 (手錶專用)

Chemical Structure:

Positive electrode - Manganese dioxide

Negative electrode - Zinc

Electrolyte - Potassium hydroxide

化學成份:

正極 - 二氧化錳

負極 - 鋅

電解液-氫氧化鉀

0% Mercury Alkaline Manganese Button Cell (Low Drian)

鹼性鈕扣電池(小電流放電)

Specifications 產品規格

Type No 型號	IEC 型號	Dimension尺寸		Nominal Voltage (V) 標稱電壓 (V)	Nominal Capacity (mAh) 標稱容量 (mAh)	Average weight (g) 平均重量 (g)
		Diameter (mm) 直徑 (mm)	Height (mm) 高度 (mm)			
L1154SW	SR44	11.6	5.4	1.5V	175	2.00
L1142SW	SR43	11.6	4.2	1.5V	115	1.52
L1131SW	SR54	11.6	3.05	1.5V	83	1.13
L1121SW	SR55	11.6	2.1	1.5V	43	0.82
L936SW	-	9.5	3.6	1.5V	60	0.87
L926SW	SR57	9.5	2.7	1.5V	42	0.64
L921SW	SR69	9.5	2.1	1.5V	29	0.54
L754SW	SR48	7.9	5.4	1.5V	53	0.91
L736SW	SR41	7.9	3.6	1.5V	43	0.62
L726SW	SR59	7.9	2.6	1.5V	28	0.45
L721SW	SR58	7.9	2.1	1.5V	18	0.37
L626SW	SR66	6.8	2.6	1.5V	18	0.32
L621SW	SR60	6.8	2.15	1.5V	14	0.27
L526SW	SR64	5.8	2.6	1.5V	10.5	0.26
L521SW	SR63	5.8	2.15	1.5V	7.5	0.21



Silver Oxide Button Cell (Watch Battery)

氧化銀鈕扣型電池 (手錶專用)

Chemical Structure:

Positive electrode - Silver Oxide

Negative electrode - Zinc

Electrolyte - Potassium hydroxide

化學成份:

正極 - 氧化銀

負極 - 鋅

電解液-氫氧化鉀

0% Mercury Silver Oxide Button Cell (Low Drian)

氧化銀鈕扣電池(小電流放電)

Specifications 產品規格

Type No 型號	IEC 型號	Dimension尺寸		Nominal Voltage (V) 標稱電壓 (V)	Nominal Capacity (mAh) 標稱容量 (mAh)	Average weight (g) 平均重量 (g)
		Diameter (mm) 直徑 (mm)	Height (mm) 高度 (mm)			
V303	SR44	11.6	5.4	1.5V	175	2.00
V301	SR43	11.6	4.2	1.5V	115	1.52
V344	SR54	11.6	3.05	1.5V	83	1.13
V390	SR55	11.6	2.1	1.5V	43	0.82
V394	-	9.5	3.6	1.5V	60	0.87
V395	SR57	9.5	2.7	1.5V	42	0.64
V371	SR69	9.5	2.1	1.5V	29	0.54
V393	SR48	7.9	5.4	1.5V	53	0.91
V384	SR41	7.9	3.6	1.5V	43	0.62
V397	SR59	7.9	2.6	1.5V	28	0.45
V362	SR58	7.9	2.1	1.5V	18	0.37
V377	SR66	6.8	2.6	1.5V	18	0.32
V364	SR60	6.8	2.15	1.5V	14	0.27
V319	SR64	5.8	2.6	1.5V	10.5	0.26
V379	SR63	5.8	2.15	1.5V	7.5	0.21

Silver Oxide Button Cell (Watch Battery)

氧化銀鈕扣型電池 (手錶專用)

Chemical Structure:

Positive electrode - Silver Oxide

Negative electrode - Zinc

Electrolyte - Potassium hydroxide

化學成份:

正極 - 氧化銀

負極 - 鋅

電解液-氫氧化鉀

0% Mercury Silver Oxide Button Cell - Extra Silver (Low Drian)

氧化銀鈕扣電池-高銀(小電流放電)

Specifications 產品規格

Type No 型號	IEC 型號	Dimension尺寸		Nominal Voltage (V) 標稱電壓 (V)	Nominal Capacity (mAh) 標稱容量 (mAh)	Average weight (g) 平均重量 (g)
		Diameter (mm) 直徑 (mm)	Height (mm) 高度 (mm)			
SR1154SW	SR44	11.6	5.4	1.55V	180	2.31
SR1142SW	SR43	11.6	4.2	1.55V	130	1.76
SR1130SW	SR54	11.6	3.05	1.55V	88	1.30
SR1120SW	SR55	11.6	2.1	1.55V	45	0.94
SR936SW	-	9.5	3.6	1.55V	72	1.03
SR927SW	SR57	9.5	2.7	1.55V	47	0.72
SR920SW	SR69	9.5	2.1	1.55V	32	0.57
SR69SW	SR69	9.5	2.1	1.55V	32	0.57
SR754SW	SR48	7.9	5.4	1.55V	65	1.04
SR736SW	SR41	7.9	3.6	1.55V	46	0.73
SR726SW	SR59	7.9	2.6	1.55V	30	0.51
SR721SW	SR58	7.9	2.1	1.55V	18	0.41
SR626SW	SR66	6.8	2.6	1.55V	21.5	0.38
SR66SW	SR66	6.8	2.6	1.55V	21.5	0.38
SR621SW	SR60	6.8	2.15	1.55V	17	0.30
SR60SW	SR60	6.8	2.15	1.55V	17	0.30
SR527SW	SR64	5.8	2.6	1.55V	14	0.28
SR64SW	SR64	5.8	2.6	1.55V	14	0.28
SR521SW	SR63	5.8	2.15	1.55V	12	0.22

0% Mercury Primary Button Cell 無汞一次性鈕扣電池

High Voltage Alkaline Cylindrical Button Cell

高電壓鹼性圓柱型電池

0% Mercury High Voltage Alkaline Cylindrical Button Cell 無汞高電鹼性圓柱型電池

Specifications 產品規格

Type No 型號	IEC 型號	Dimension 尺寸		Nominal Voltage (V) 標稱電壓 (V)	Nominal Capacity (mAh) 標稱容量 (mAh)	Average weight (g) 平均重量 (g)
		Diameter (mm) 直徑 (mm)	Height (mm) 高度 (mm)			
L1345 F	-	13.0	46.0	12.0	132	18.82
L1335 F	-	13.0	35.6	9.0	140	14.30
L1325 F	4LR44	13.0	25.2	6.0	152	9.83
L1315 F	-	13.0	15.0	3.0	130	5.33
L1320 F	-	13.0	20.2	4.5	165	7.89
L1028 F	23A	10.3	28.5	12.0	54	8.10
L1022 F	10A	10.3	22.2	9.0	43	5.89
L1016 F	11A	10.3	16.0	6.0	44	4.11
L1013 F	-	10.3	12.5	4.5	50	3.34
L1010 F	-	10.3	10.6	3.0	47	2.33
L828 F	27A	8.0	28.2	12.0	27	4.85
F822 F	-	8.0	22.2	9.0	23	3.63
L816 F	-	8.0	15.2	6.0	16	2.52
L813 F	-	8.0	12.3	4.5	18	1.98
L810 F	-	8.0	9.2	3.0	18	1.43

Cross Reference Guide 電池對照表

Item No. 型號	DIM(mm) 尺寸	IEC 型號	JIS 日本	ANSI 型號	Energizer 型號	Duracell 型號	Varta 型號	Others
L1325 F	13.0x25.2	4LR44	4LR44	1414A	A544	-	V4034PX	-
L1028 F	10.3x28.5	23A	-	-	A23	MN21	V23GA	GP23A
L1022 F	10.3x22.2	10A	-	-	-	-	-	-
L1016 F	10.3x16.0	11A	-	-	A11	-	-	-
L828 F	8.0x28.2	27A	-	-	A27	-	V27GA	-

0% Mercury High Voltage Alkaline Cylindrical Button Cell 無汞高電鹼性圓柱型電池



L1325F



L1028F



L828F



L1016F

Packing Information 包裝資料

Model no. 型號	Tray pack standard packing (pcs) 散裝標準包裝 (pcs)		Consumer Pack (1pcs/ card) 1粒啱裝		Consumer Pack (2pcs/ card) 2粒啱裝		Consumer Pack (10pcs/ card) 10粒啱裝	
	Bulk Pack 散裝	Carton 外箱	Color Box 彩盒	Carton 外箱	Color Box 彩盒	Carton 外箱	Color Box 彩盒	Carton 外箱
L1154F 303F/303EF 357F/357EF	50	4000	10	300	20	600	100	2000
L1142F 386F/386EF	50	4400	10	300	20	600	100	2000
L1131F 389F/389EF	50	5800	10	300	20	600	100	2000
L1121F 391F/391EF	50	8000	10	300	20	600	100	2000
L936F 394F/394EF	50	6000	10	300	20	600	100	2000
L932F	50	6000	10	300	20	600	100	2000
L926F 395F/395EF	50	8000	10	300	20	600	100	2000
L921F 371F/371EF	50	8000	10	300	20	600	100	2000
L754F 393F/393EF	100	8000	10	300	20	600	100	2000
L736F 392F/392EF	100	10000	10	300	20	600	100	2000
L732F	100	16000	10	300	20	600	100	2000
L726F 397F/397EF	100	16000	10	300	20	600	100	2000
L721F 362F/362EF	100	16000	10	300	20	600	100	2000
L626F 377F/377EF	100	16000	10	300	20	600	100	2000
L621F 364F/364EF	100	16000	10	300	20	600	100	2000
L526F 319F/319EF	100	16000	10	300	20	600	100	2000
L521F 379F/379EF	100	16000	10	300	20	600	100	2000
L1560F	50	3000	10	300	20	600	50	1000

Model no. 型號	Consumer Pack (1pcs/ card) 1粒啱裝		
	Watch Mini box 小彩盒	Watch Color box 中彩盒	Carton 外箱
Watch Battery 手錶電池	10	100	1000

Model no. 型號	Tray pack standard packing (pcs) 散裝標準包裝 (pcs)			Consumer Pack (1pcs/ card) 1粒啱裝		Consumer Pack (2pcs/ card) 2粒啱裝		Consumer Pack (5pcs/ card) 5粒啱裝	
	White Box 白盒	Inner Box 啱盒	Carton 外箱	White Box 白盒	Carton 外箱	White Box 白盒	Carton 外箱	White Box 白盒	Carton 外箱
L810F	78	780	3120	8	240	16	480	40	400
L816F	78	780	3120	8	240	16	480	40	400
L822F	78	780	3120	8	240	16	480	40	400
L828F	78	780	3120	8	240	16	480	40	400
L1010F	50	500	2000	8	240	16	480	40	400
L1016F	50	500	2000	8	240	16	480	40	400
L1022F	50	500	2000	8	240	16	480	40	400
L1028F	50	500	2000	8	240	16	480	40	400
L1315F	32	320	1280	6	180	12	360	20	200
L1320F	32	320	1280	6	180	12	360	20	200
L1325F	32	320	1280	6	180	12	360	20	200

Notes 用戶須知

When using Vinnic batteries, all users must follow the company Battery Specification Guide Book and MSDS guide according to the specific type and model of the battery. 用戶必須按照本公司每款電池之電池規格說明書及 MSDS 使用電池。

For more battery safety instructions, please refer to the following documents, which can be accessed through Vinnic's sales office, or from our website at www.vinnic.com. 如欲瞭解更多電池安全指引，請向本公司營業員或網址 www.vinnic.com 索取以下資料

- 1) Battery Specification Guide Book 電池規格說明書
- 2) Material Safety Data Sheet (MSDS) 物料安全技術說明書
- 3) IEC Non-Rechargeable Batteries Safety Precautions IEC 一次電池安全指引
- 4) Battery Care 電池使用安全指引

0% Mercury Primary Button Cell 無汞一次性鈕扣電池

Alkaline Button Cell Series 鹼性鈕扣電池系列



Remarks : Card Size / 注 : 咭紙尺寸 :
C1 / C2 : 89 x 45 mm C5 : 141 x 51 mm

High Voltage Alkaline Cylindrical Button Cell 高電壓鹼性圓柱型電池



Remarks : Card Size / 注 : 咭紙尺寸 :
C1 / C2 : 89 x 45 mm C5 : 141 x 51 mm

Silver Oxide Button Cell Series 氧化銀鈕扣型電池系列



Remarks : Card Size / 注 : 咭紙尺寸 :
C1 / C2 : 89 x 45 mm C5 : 141 x 51 mm

Watch Battery Series 手錶電池系列



* Any specific design and packaging requirements will be accommodated as required.
** 本公司可提供任何可行之特別包裝。

Warning	Danger
1. Don't throw the batteries into fire or heat the batteries	This may cause the batteries to disrupt or ignite
2. Don't directly solder the batteries	This may damage their insulating tapes and protective installation, even may cause leakage, explosion and fire
3. Don't insert and use batteries with the $\oplus$ & $\ominus$ electrode inverse	This can damage the batteries for being force charged, even may cause leakage, heat generation, disrupt, explosion or ignition
4. Don't short-circuit the positive and negative terminals of a battery	This may cause heat generation, leakage, explosion, fire and personal injury
5. Don't expose the batteries to water	This can cause heat generation or rust
6. Don't charge and force discharge batteries	This may cause leakage, heat generation, even explosion and ignition
7. Don't disassemble or damage the external tubes of the batteries or modify the batteries(stack-up batteries) etc.	This easily results in short-circuit, leakage, even ignition
8. Store unused batteries in their original packaging away from metal objects.	This can cause battery short-circuiting which may result in venting, leakage, and explosion and personal injury.
9. Don't crush, puncture, or otherwise mutilate to deform batteries	This may cause venting, leakage, explosion and personal injury
10. Immediately stop using the batteries if leakage, discolor or etc. with them are detected	This may cause accidents to occur
11. Don't drop or strongly strike the batteries	This may result in leakage, heat generation, disrupt, even ignition
12. To avoid using at high temperature and high humidity ambient	This may cause batteries early damage
13. a. Be sure to use the batteries within a temperature range from 0°C to 40°C b. Be sure to storage the batteries within a temperature range at 20±5°C	a. Use the batteries beyond the temperature range may cause leakage, heat generation, impaired performance, and shortening of service life of the batteries b. Storage the batteries beyond the temperature range may cause heat generation, impaired performance, and shortening of service life of the batteries
14. Don't use old batteries with new ones	Some batteries may be over-discharged. This can result in venting, leakage, explosion and personal injury
15. Don't use our batteries with any other type or brand of batteries	Mixed-matching of batteries may result in heat generation, leakage, explosion, fire
16. Remove batteries from equipment if it is not to be used for an extended period of time	When batteries beyond expiry period, electrolyte leakage may occur causing damage to the equipment
17. Exhausted batteries should be immediately removed from equipment	When discharged batteries are kept in the equipment for a long time, electrolyte leakage may occur causing damage to the appliance and/or personal injury
18. Keep the batteries out of the reach of children	To avoid being swallowed. If swallowed, Please see doctor immediately
19. Don't allow children to replace batteries without adult supervision	This may cause wrong operation, even may occur accident
20. Please use batteries within expiry period	To avoid using invalid batteries which beyond expiry period
21. Don't take batteries by hand directly. Please wear finger cots	This may cause rust
22. Don't take batteries with iron tweezer. Please use plastic tweezer.	This can cause battery short-circuiting which may result in heat generation, leakage, and explosion

We reserve all rights for the change of product specification and any information without any prior notice.

0% Mercury Primary Button Cell 無汞一次性鈕扣電池

警告	危害
1. 請勿將電池投入火中或加熱	以免電池發生破裂起火等
2. 請勿直接焊接電池	以免損壞絕緣圈及保護裝置，引致漏液、爆炸、著火
3. 將電池放入電子產品及使用過程中，請勿將 $\oplus$ 、 $\ominus$ 極反接	以免電池被迫充電而破壞電池，甚至會引起電池漏液、發熱、破裂、爆炸或起火
4. 請勿將電池正、負極短路	以免造成電池發熱、漏液或爆炸、著火及人身傷害
5. 請勿將電池浸入水中	以免電池發熱或生鏽
6. 請勿對電池進行充電及強制放電	以免引起電池漏液、發熱、甚至爆炸及起火
7. 請勿拆開或弄破電池的外包裝，改裝電池(電池組)等	以免容易發生短路，產生漏液甚至起火
8. 請將不用的電池放在原包裝內，遠離易引起短路的金屬物體	以免造成電池短路，產生泄放、泄漏、爆炸和人身傷害
9. 請勿對電池擠壓，打孔或其他形式的破壞	以免造成電池泄放、泄漏、爆炸及人身傷害
10. 若電池有漏液、變色等異常現象，請停止使用	以免發生意外
11. 請勿拋擲或強烈衝擊電池	以免引發電池漏液、發熱、破裂、甚至起火
12. 盡量避免電池在高溫，高濕下使用	以免電池過早損壞
13. a. 請在0~40°C的溫度範圍內使用 b. 請在20±5°C的溫度範圍內貯存	a. 不在此範圍內，可能會使電池漏液或發熱，影響電池性能，縮短電池壽命 b. 不在此範圍內，可能會影響電池性能，縮短電池壽命
14. 請勿將新、舊電池混用	以免造成電池過度放電而產生泄放、泄漏和爆炸，及造成人身傷害
15. 請勿與不同類型或牌號的電池混用	以免造成電池發熱、漏液、爆炸、著火
16. 若電子產品長期不用，應將電池從電子產品中取出	以免電池超過貯存期可能發生漏液損壞電子產品
17. 電池耗盡應立即從電子產品中取出	若已放電的電池長時間留在電子產品中，可能發生漏液，造成電子產品損壞及人身傷害
18. 請勿將電池置於嬰幼兒手可觸及的地方	以免誤吞食；萬一吞食，請立即就醫
19. 請勿讓兒童獨立更換電池	以免操作錯誤或發生意外
20. 請在電池規定的貯存期內使用	以免使用過期失效產品
21. 請勿用手直接接觸電池，請戴手指套取電	以免造成電池生鏽
22. 請勿使用鐵鉗取電，請使用膠鉗取電	以免造成電池短路、發熱、漏液或爆炸

本公司保留更改產品規格書和任何資料的權力，且無須預先通知。



**POWERED
BY PROFESSIONALS**
專業力量 專心為你

0% Mercury Primary Button Cell 無汞一次性鈕扣電池

CHUNG PAK GROUP 松柏集團

HEAD OFFICE 總公司

■ **CHUNG PAK BATTERY WORKS LTD.**
松柏電池廠有限公司

■ **VINNIC BATTERY WORKS LTD.**
銀戰士電池廠有限公司

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