

CUSTOMER APPROVAL SHEET



Company Name	LiDL
MODEL	
CUSTOMER APPROVAL	

- ☐ **APPROVAL FOR SPECIFICATIONS ONLY (Spec. Ver. 1.12)**
- ☐ **CUSTOMER REMARK:**

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LiDL Label Datasheet

REV 1.12

14-05-2025



Summary

This datasheet presents the general performance and specifications of SOLUM Electronic Shelf Label (ESL) System.

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Document History

Rev.	Date	Revision History	Page
1.0	23, April, 2021	Initial release	-
1.1	08, Sep, 2022	Dimension, Label Weight, Shape	7, 9~13
1.2	05, Oct, 2022	ESL Rendering Image Update	6, 9~13
1.3	12, Sep, 2023	5.8" Hotplate Rendering Image, Dimension, Label Weight Update	6~7, 11
1.4	05, June, 2024	5.8" Outdoor Rendering Image, Dimension, Label Weight Update	6, 7, 11, 16, 25
1.5	13, June, 2024	Display Resolution Update	7
1.6	17, June, 2024	Specification Update	-
1.7	26, June, 2024	3.5" freezer & rendering image Update	-
1.8	02, July, 2024	3.5" freezer specification & outdrawing Update	-
1.9	25, July, 2024	3.5" DPI & model name update	-
1.10	09, Sep, 2024	Hardware model article no. update	-
1.11	01, Nov, 2024	4color Hardware model article no. update	-
1.12	14. May, 2025	Overall Model Specification Update	-

1.1 Features

- Display: E-Paper Display (EPD) Active Type
- Sizes: 2.6", 3.5", 5.8", 9.7", 12.2"
- Display Color: BW (Black, White) / BWR (Black, White, Red) / BWRY (Black, White, Red, Yellow)
- Wireless Frequency: 2.4 GHz Unlicensed ISM band
- Communication Protocol: BLE physical layer with SOLUM proprietary protocol
- Battery operated low power consumption
- NFC (13.56MHz): Felica ® NFC Forum Type 3
- Up to 7 pages display screens
- RoHS compliant

1.2 Typical Applications

- Retail industry with electronic displays, platforms, solutions and services
- Intelligently communicating, managing, and optimizing price and product informations
- Warehouse & factory picking labels

2 Specification

2.1 Product Specification

Item	Description
Label Dimensions (W x H x D)	2.6" 3-Color: 77.5 x 41.6 x 12.8 mm / 3.05 x 1.64 x 0.50 in 2.6" 4-Color: 78.6 x 42.8 x 14.0 mm / 3.09 x 1.69 x 0.55 in 3.5" 4-Color*: 100.0 x 49.6 x 14.2 mm / 3.93 x 1.95 x 0.56 in 3.5" Freezer*: 100.0 x 49.6 x 14.2 mm / 3.93 x 1.95 x 0.56 in 5.8" 3-Color: 166.3 x 65.8 x 14.1 mm / 6.55 x 2.59 x 0.56 in 5.8" 4-Color: 167.7 x 67.0 x 15.2 mm / 6.60 x 2.64 x 0.60 in 5.8" Freezer: 166.3 x 65.8 x 15.6 mm / 6.55 x 2.59 x 0.61 in 5.8" Outdoor: 166.3 x 65.8 x 15.6 mm / 6.55 x 2.59 x 0.61 in 9.7" 3-Color: 167.7 x 220.0 x 14.2 mm / 6.60 x 8.66 x 0.56 in 9.7" 4-Color: 167.7 x 220.0 x 14.2 mm / 6.60 x 8.66 x 0.56 in 12.2" 3-Color: 215.2 x 261.6 x 14.8 mm / 8.47 x 10.30 x 0.58 in 12.2" 4-Color: 215.2 x 261.6 x 14.8 mm / 8.47 x 10.30 x 0.58 in
Display Dimensions (W x H)	2.6" 3-Color: 60.0 x 30.7 mm / 2.36 x 1.21 in 2.6" 4-Color: 60.0 x 30.7 mm / 2.36 x 1.21 in 3.5" 4-Color*: 79.49 x 37.08 mm / 3.13 x 1.46 in 3.5" Freezer*: 79.49 x 37.08 mm / 3.13 x 1.46 in 5.8" 3-Color: 139.0 x 47.7 mm / 5.47 x 1.88 in 5.8" 4-Color: 139.0 x 47.7 mm / 5.47 x 1.88 in 5.8" Freezer: 139.0 x 47.7 mm / 5.47 x 1.88 in 5.8" Outdoor: 139.0 x 47.7 mm / 5.47 x 1.88 in 9.7" 3-Color: 141.1 x 201.6 mm / 5.56 x 7.94 in 9.7" 4-Color: 141.1 x 201.6 mm / 5.56 x 7.94 in 12.2" 3-Color: 190.1 x 237.6 mm / 7.48 x 9.35 in 12.2" 4-Color: 190.1 x 237.6 mm / 7.48 x 9.35 in
Display Resolution	2.6" 3-Color: 360 x 184 pixels (152 dpi) 2.6" 4-Color: 360 x 184 pixels (152 dpi) 3.5" 4-Color*: 480 x 224 pixels (155 dpi) 3.5" Freezer*: 480 x 224 pixels (155 dpi) 5.8" 3-Color: 792 x 272 pixels (145 dpi) 5.8" 4-Color: 792 x 272 pixels (145 dpi) 5.8" Freezer: 792 x 272 pixels (145 dpi) 5.8" Outdoor: 792 x 272 pixels (145 dpi) 9.7" 3-Color: 672 x 960 pixels (121 dpi) 9.7" 4-Color: 672 x 960 pixels (121 dpi) 12.2" 3-Color: 768 x 960 pixels (102 dpi) 12.2" 4-Color: 768 x 960 pixels (102 dpi)
Label Weight	2.6" 3-Color: 37.6 g 2.6" 4-Color: 37.6 g 3.5" 4-Color*: 51.7 g 3.5" Freezer*: 51.7 g 5.8" 3-Color: 105.9 g 5.8" 4-Color: 130.6 g 5.8" Freezer: 135.8 g 5.8" Outdoor: 134.0 g 9.7" 3-Color: 287.3 g 9.7" 4-Color: 287.3 g 12.2" 3-Color: 420.7 g 12.2" 4-Color: 420.7 g

Display Colors	2.6" 3-Color: ● ○ ● BWR (Black, White, Red) 2.6" 4-Color: ● ○ ● ● BWRY (Black, White, Red, Yellow) 3.5" 4-Color: ● ○ ● ● BWRY (Black, White, Red, Yellow) 3.5" Freezer: ● ○ BW (Black, White) 5.8" 3-Color: ● ○ ● BWR (Black, White, Red) 5.8" 4-Color: ● ○ ● ● BWRY (Black, White, Red, Yellow) 5.8" Freezer: ● ○ BW (Black, White) 5.8" Outdoor: ● ○ BW (Black, White) 9.7" 3-Color: ● ○ ● BWR (Black, White, Red) 9.7" 4-Color: ● ○ ● ● BWRY (Black, White, Red, Yellow) 12.2" 3-Color: ● ○ ● BWR (Black, White, Red) 12.2" 4-Color: ● ○ ● ● BWRY (Black, White, Red, Yellow)
Battery	2.6" 3-Color: Battery Pack (CR2450 X 2) 2.6" 4-Color: Battery Pack (CR2450 X 2) 3.5" 4-Color*: Coin Battery (CR2450) X 2 3.5" Freezer*: Coin Battery (CR2450) X 2 5.8" 3-Color: Battery Pack (CR2450 X 4) 5.8" 4-Color: Battery Pack (CR2450 X 4) 5.8" Freezer: Battery Pack (CR2450 X 5) 5.8" Outdoor: Battery Pack (CR2450 X 5) 9.7" 3-Color: Battery Pack (CR2450 X 5) 9.7" 4-Color: Battery Pack (CR2450 X 5) 12.2" 3-Color: Battery Pack (CR2450 X 6) 12.2" 4-Color: Battery Pack (CR2450 X 6)
Housing Bezel Color	2.6" 3-Color: Gray, White 2.6" 4-Color: Gray 3.5" 4-Color: Gray 3.5" Freezer: Gray 5.8" 3-Color: Gray, White 5.8" 4-Color: Gray 5.8" Freezer: Gray 5.8" Outdoor: Gray 9.7" 3-Color: Gray, White 9.7" 4-Color: Gray 12.2" 3-Color: Gray, White 12.2" 4-Color: Gray
Usable Pages	Up to 7 pages
Wireless Communication	2.4 GHz Unlicensed ISM band for BLE physical layer with SOLUM Proprietary Protocol
Communication Distance	98 feet (30m) radius Line of Sight
Operating Temperature	Normal Labels - 3-Color: 0°C ~ 40°C (32°F ~ 104°F) @45~70% RH - 4-Color: 0°C ~ 40°C (32°F ~ 104°F) @45~70% RH Freezer Labels: -25°C ~ 0°C (-13°F ~ 32°F) Outdoor Labels: -20°C ~ 60°C (-4°F ~ 140°F)
Storage Temperature	All Labels: 0°C ~ 40°C (32°F ~ 104°F) @45~70% RH

* The 3.5" 4-Color and 3.5" Freezer product specifications are subject to change.

2.2 Radio (RF) Specification

Item	Parameter	Specification			Unit	Condition
		Min	Typ	Max		
Tx	Tx Power	-3	0	4	dBm	
	[Carrier Frequency Offset and Drift]	-75	0	75	kHz	
	Tx Current		-	10	mA	Total current at max Tx Power
Rx	Receiver Sensitivity	-85	-	-	dBm	PER < 5%

2.3 NFC Specification

Item	Parameter	Specification			Unit	Condition
		Min	Typ	Max		
NFC	Read Distance	-	0.7	-	in	
		-	20	-	mm	

NFC antenna location shown for each ESL size.

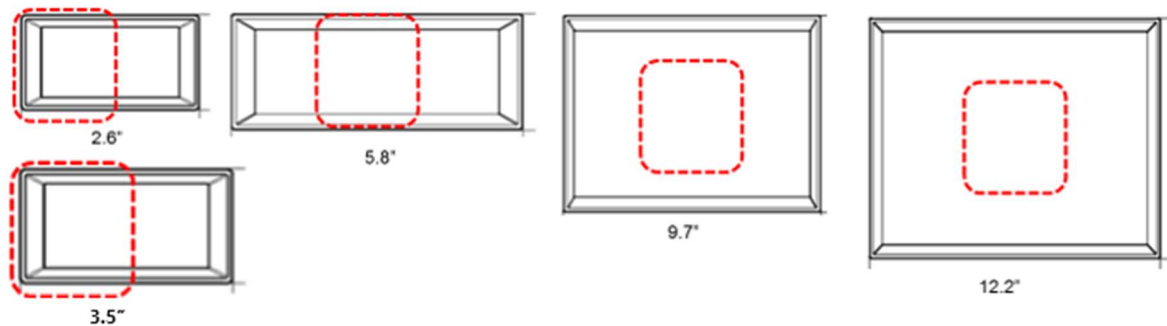
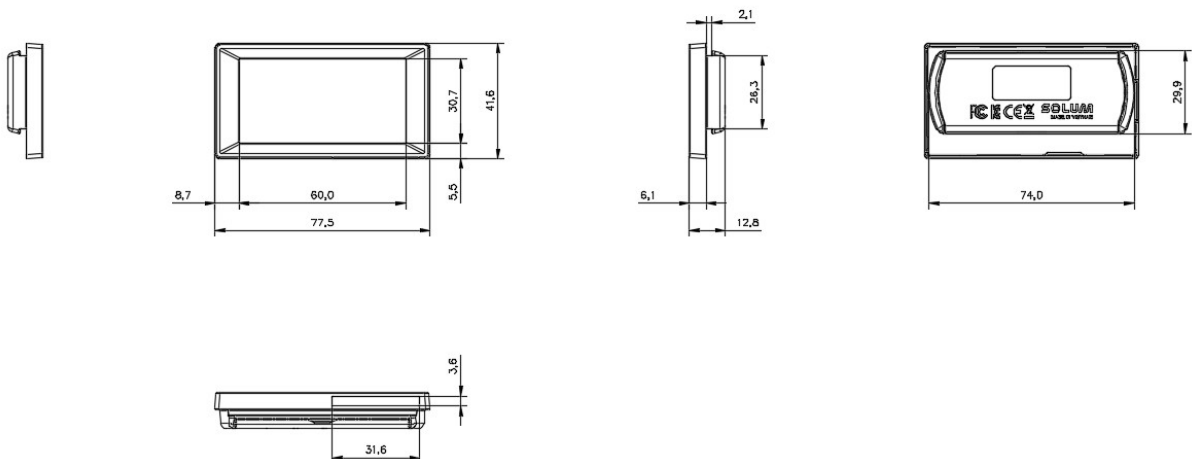


Figure 2. NFC LOCATION

3 Mechanical Drawing

3.1 2.6" 3-Color



(Unit: mm)

Figure 3. 2.6" 3-COLOR MECHANICAL DIMENSION

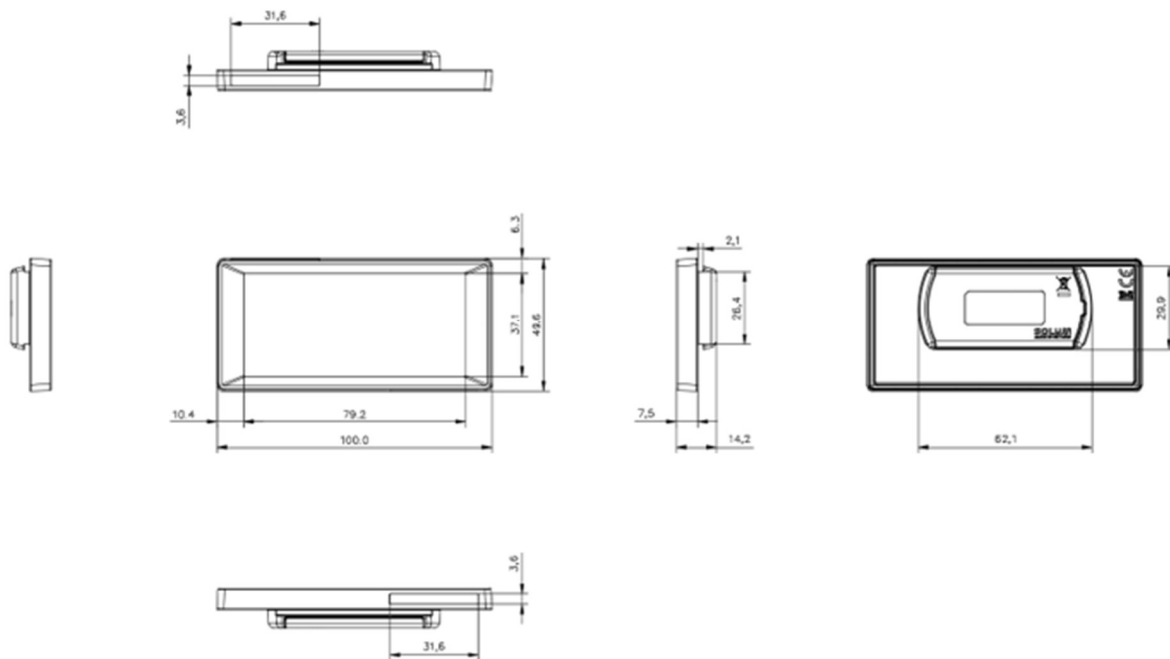
3.2 2.6" 4-Color



(Unit: mm)

Figure 4. 2.6" 4-COLOR MECHANICAL DIMENSION

3.3 3.5" 4-Color

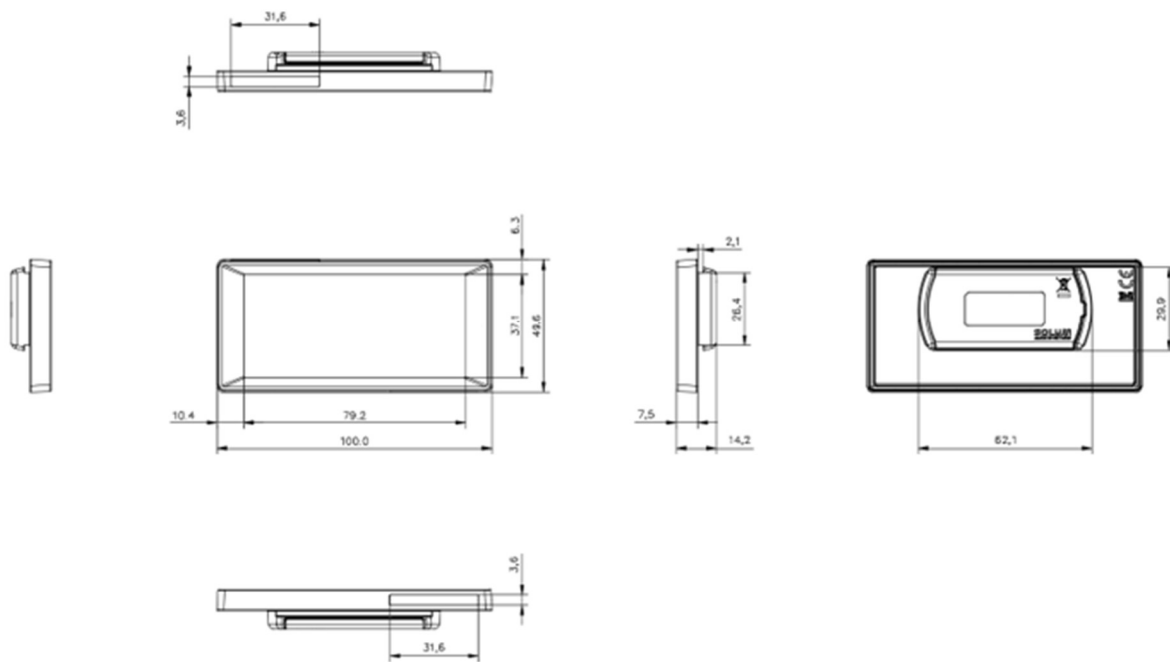


(Unit: mm)

Figure 5. 3.5" 4-COLOR MECHANICAL DIMENSION*

* The 3.5" 4-Color mechanical dimension is subject to change.

3.4 3.5" Freezer

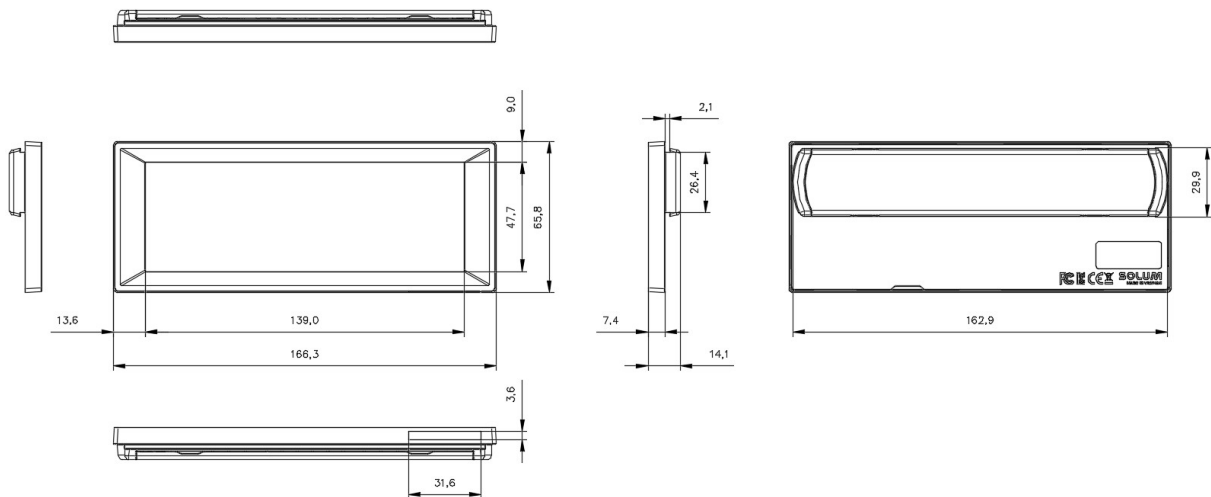


(Unit: mm)

Figure 6. 3.5" FREEZER MECHANICAL DIMENSION*

* The 3.5" Freezer mechanical dimension is subject to change.

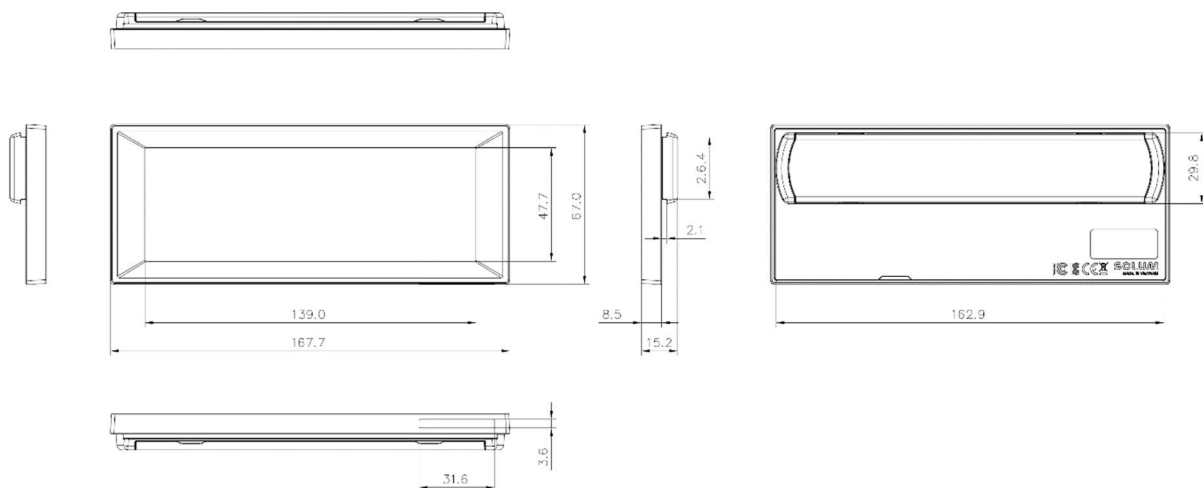
3.5 5.8" 3-Color



(Unit: mm)

Figure 7. 5.8" 3-COLOR MECHANICAL DIMENSION

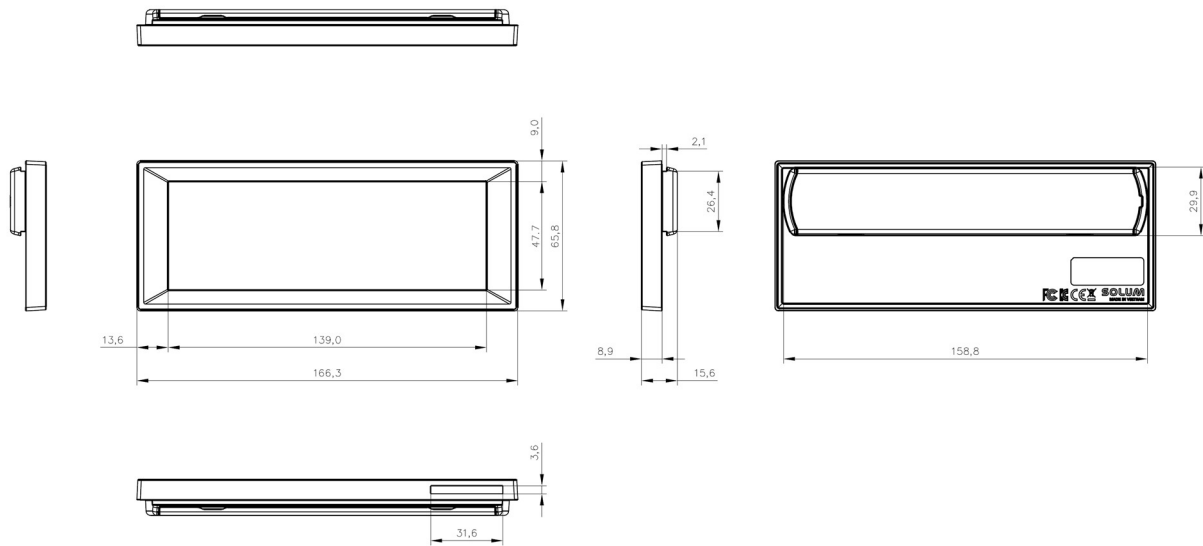
3.6 5.8" 4-Color



(Unit: mm)

Figure 8. 5.8" 4-COLOR MECHANICAL DIMENSION

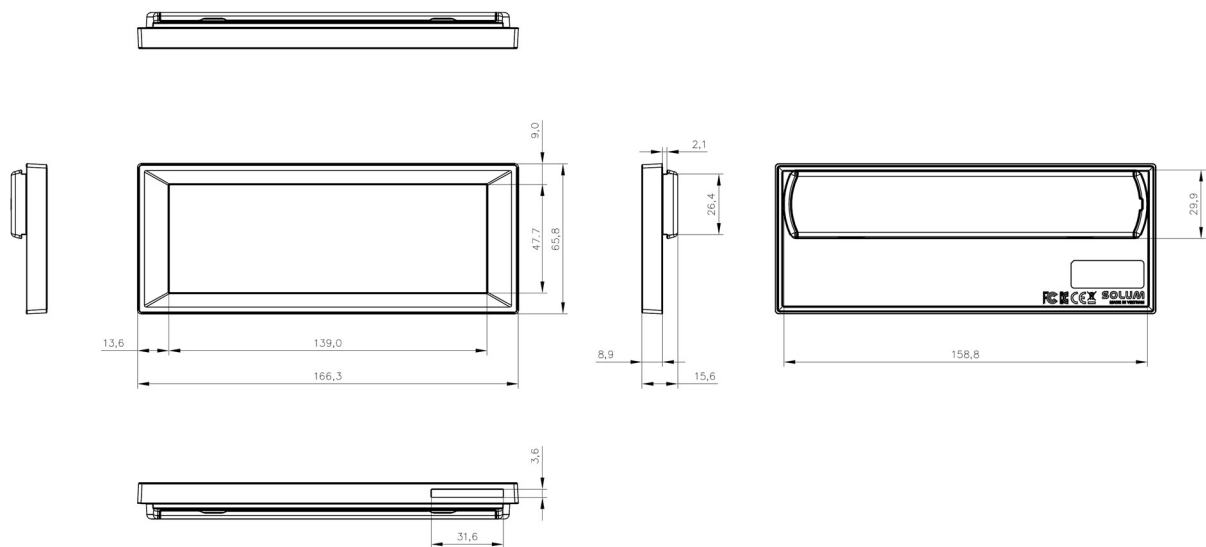
3.7 5.8" Freezer



(Unit: mm)

Figure 9. 5.8" FREEZER MECHANICAL DIMENSION

3.8 5.8" Outdoor



(Unit: mm)

Figure 10. 5.8" OUTDOOR MECHANICAL DIMENSION

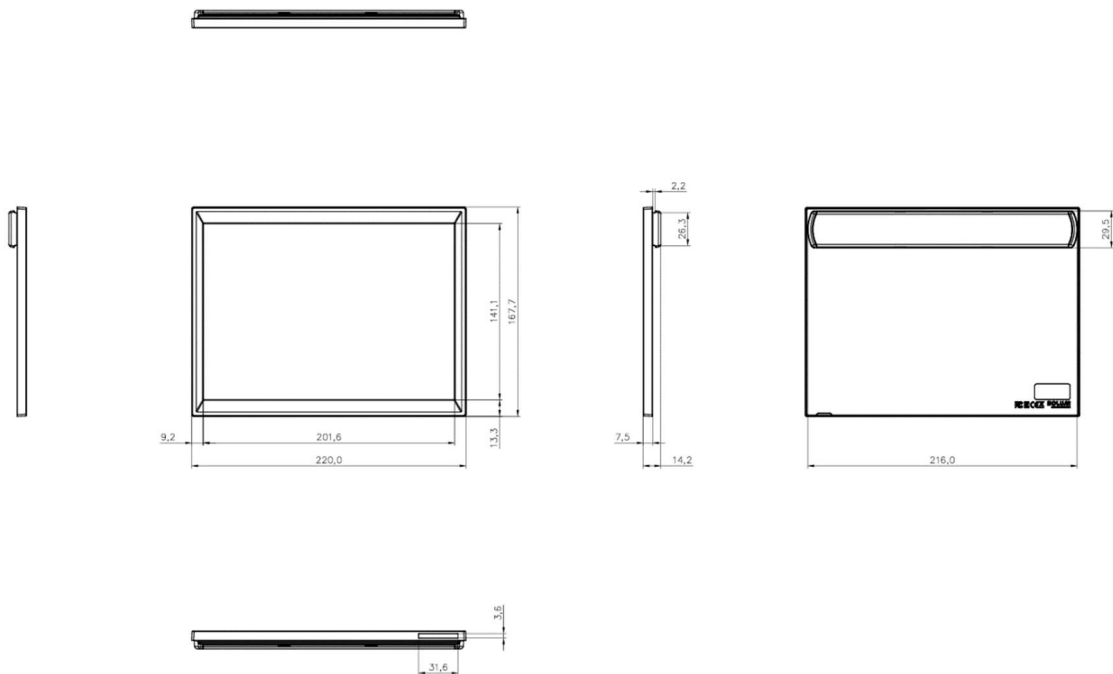
3.9 9.7" 3-Color



(Unit: mm)

Figure 11. 9.7" 3-COLOR MECHANICAL DIMENSION

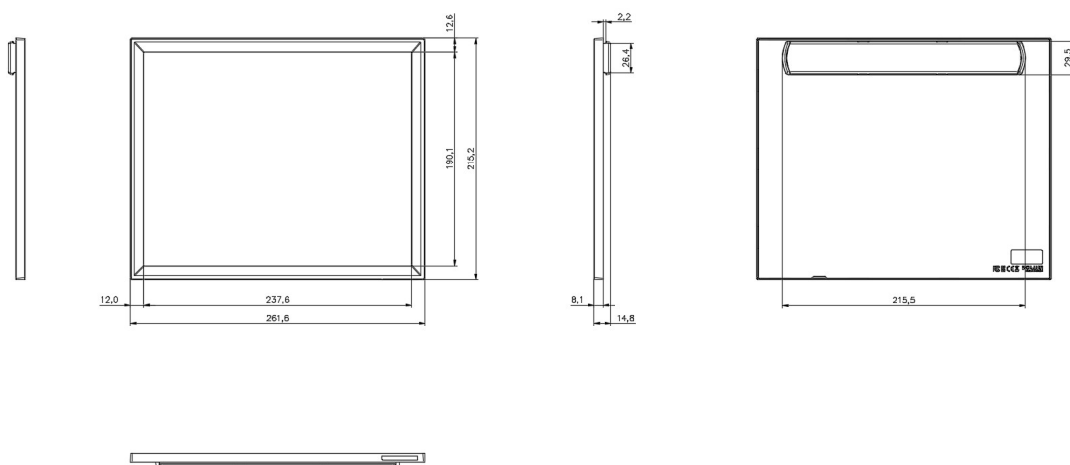
3.10 9.7" 4-Color



(Unit: mm)

Figure 12. 9.7" 4-COLOR MECHANICAL DIMENSION

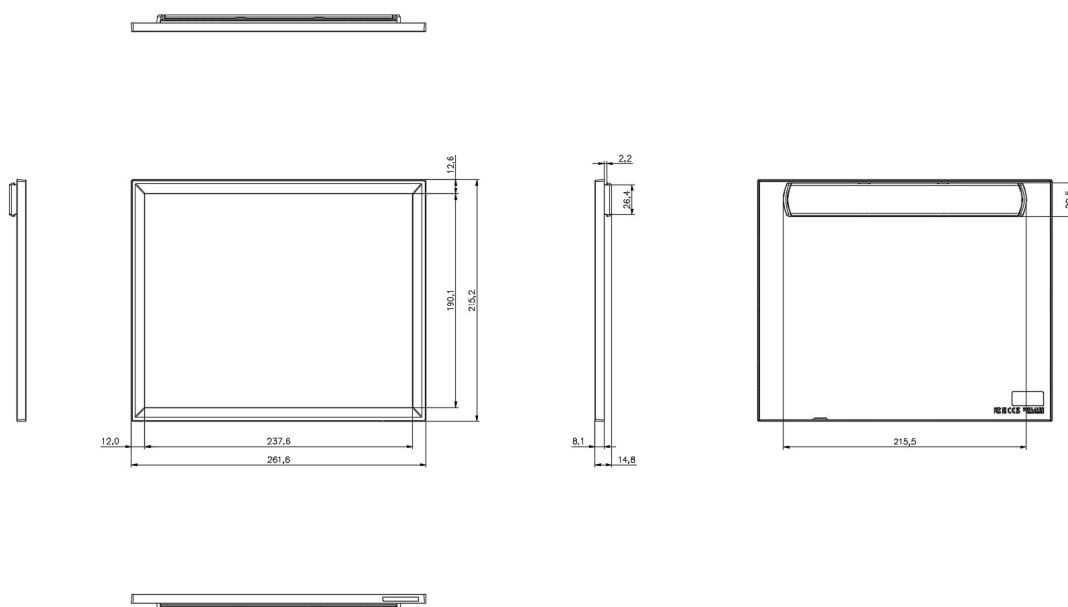
3.11 12.2" 3-Color



(Unit: mm)

Figure 13. 12.2" 3-COLOR MECHANICAL DIMENSION

3.12 12.2" 4-Color

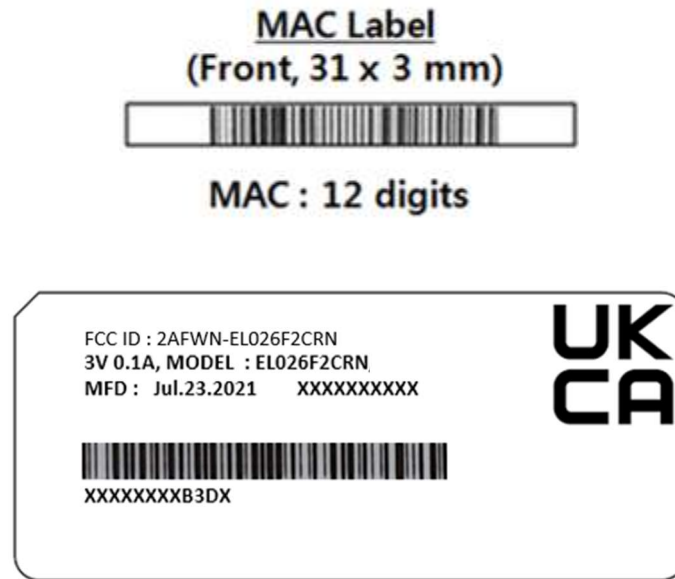


(Unit: mm)

Figure 14. 12.2" 4-COLOR MECHANICAL DIMENSION

4 Label Marking

4.1 Product Info and MAC Display in Label



2-Color/3-Color Label



4-Color Label

Figure 15. Product and MAC Labels

Product information is indicated on the sticker label of the Labels. The information consists of KC ID, FCC ID, Rated voltage and current, MODEL (model name), MFD (manufacturing date), Serial number, MAC (MAC address) and UKCA certification mark.

1) Model: EL①②③④2⑤⑥⑦ (i.e. EL026H2CRN)

- ①②③: ESL Display Size & Type
 - ✓ 026= 2.6"
 - ✓ M35= 3.5"
 - ✓ F35= 3.5" Freezer
 - ✓ 058, B58, D58= 5.8"
 - ✓ F58, I58= 5.8" Freezer

- ✓ W58= 5.8" Outdoor
- ✓ 097= 9.7"
- ✓ 122= 12.2"
- ④: Main IC Maker
 - ✓ H= Nordic
 - ✓ R= Realtek
 - ✓ K= TI
 - ✓ F= SiLAB
- ⑤: Housing Color
 - ✓ C= Gray
 - ✓ W= White
- ⑥: ESL Display Color
 - ✓ M= Black, White (MONO)
 - ✓ R= Black, White, Red (BWR)
 - ✓ 4= Black, White, Red, Yellow (BWRY)
- ⑦: ESL Tag Type
 - ✓ N= NFC
 - ✓ P= NFC + Protection Cover

Size	Name / Type	Color	MCU	Model Name
2.6"	Newton ESL 3-Color	White (RAL9003)	Nordic nRF52811	EL026H2WRN
		Gray (RAL7024)	Nordic nRF52811	EL026H2CRN
			TI CC2640R2F	EL026K2CRN
			SiLabs EFR32BG22	EL026F2CRN
	Newton ESL 4-Color	Gray (RAL7024)	SiLabs EFR32BG22	EL026F2C4P
3.5"	Newton ESL 4-Color	Gray (RAL7024)	Realtek RTL8752H	ELM35R2C4N*
				ELM35R2C4P*
	Newton ESL Freezer	Gray (RAL7024)	Realtek RTL8752H	ELF35R2CMP*
5.8"	Newton ESL 3-Color	White (RAL9003)	Nordic nRF52811	EL058H2WRN
		Gray (RAL7024)	Nordic nRF52811	EL058H2CRN
				ELB58H2CRN
			Realtek RTL8762E	ELD58R2CRN
				ELB58R2CRN
	Newton ESL 4-Color	Gray (RAL7024)	Nordic nRF52811	ELD58H2C4P
	Newton ESL Freezer	Gray (RAL7024)	Nordic nRF52811	ELF58H2CMN
			Realtek RTL8762E	ELF58R2CMN
				ELI58R2CMN
	Newton ESL Outdoor	Gray (RAL7024)	Realtek RTL8762E	ELW58R2CMN
9.7"	Newton ESL 3-Color	White (RAL9003)	Nordic nRF52811	EL097H2WRN
		Gray (RAL7024)	Nordic nRF52811	EL097H2CRN
			Realtek RTL8762E	EL097R2CRN
	Newton ESL 4-Color	Gray (RAL7024)	Nordic nRF52811	EL097H2C4N
12.2"	Newton ESL 3-Color	White (RAL9003)	Nordic nRF52811	EL122H2WRN
		Gray (RAL7024)	Nordic nRF52811	EL122H2CRN
			Realtek RTL8762E	EL122R2CRN
	Newton ESL 4-Color	Gray (RAL7024)	Nordic nRF52811	EL122H2C4N

* The 3.5" 4-Color and 3.5" Freezer product specifications are subject to change.

2) MFD: (Month).(Date).(Year) (i.e. JAN.26.2020)

3) S/N: Serial Number Information

5 Packaging

			CARTON INFORMATION								
PRODUCT	TYPE	TAG (gr)	TAGs / CARTON	PART CODE	DIMENSION_INNER (mm)			DIMENSION_OUTER (mm)			WEIGHT (kg)
					W	L	H	W	L	H	
LIDL_GRAPHIC 2.6-INCH	STD	37.60	240	ML69A030400A	294.0	379.0	195.0	309.0	394.0	220.0	11.0
LIDL_GRAPHIC 3.5-INCH	STD	18.90	240	-	477.0	320.0	187.0	487.0	330.0	212.0	4.5
LIDL_GRAPHIC 3.5-INCH	FREEZING	47.00	240	-	477.0	320.0	187.0	457.0	330.0	212.0	11.3
LIDL_GRAPHIC 5.8-INCH	STD	104.90	80	ML69A030401A	257.0	378.0	181.0	272.0	393.0	206.0	10.4
LIDL_GRAPHIC 5.8-INCH	FREEZING	139.90	80	ML69A030403A	288.0	378.0	181.0	303.0	393.0	206.0	13.2
LIDL_GRAPHIC 9.7-INCH	STD	288.40	32	ML69A030404A	213.0	380.0	249.0	228.0	395.0	274.0	11.2
LIDL_GRAPHIC 12.2-INCH	STD	419.90	20	ML69A030405B	281.0	380.0	244.0	296.0	395.0	269.0	10.4

			PALLET INFORMATION							
PRODUCT	TYPE	TAG (gr)	CARTONs / LAYER	Number of LAYER	CARTONs / PALLET	PALLET DIMENSION (mm)			WEIGHT (kg)	HEIGHT (mm)
						W	L	H		
LIDL_GRAPHIC 2.6-INCH	STD	37.60	8	4	32	1200.0	800.0	144.0	378	1,034
LIDL_GRAPHIC 3.5-INCH	STD	18.90	7	4	28	1200.0	800.0	144.0	151	1,002
LIDL_GRAPHIC 3.5-INCH	FREEZING	47.00	7	4	28	1200.0	800.0	144.0	341	1,002
LIDL_GRAPHIC 5.8-INCH	STD	104.90	8	4	32	1200.0	800.0	144.0	358	978
LIDL_GRAPHIC 5.8-INCH	FREEZING	139.90	8	4	32	1200.0	800.0	144.0	447	978
LIDL_GRAPHIC 9.7-INCH	STD	288.40	10	3	30	1200.0	800.0	144.0	362	976
LIDL_GRAPHIC 12.2-INCH	STD	419.90	8	3	24	1200.0	800.0	144.0	275	961

EX) 5.8"

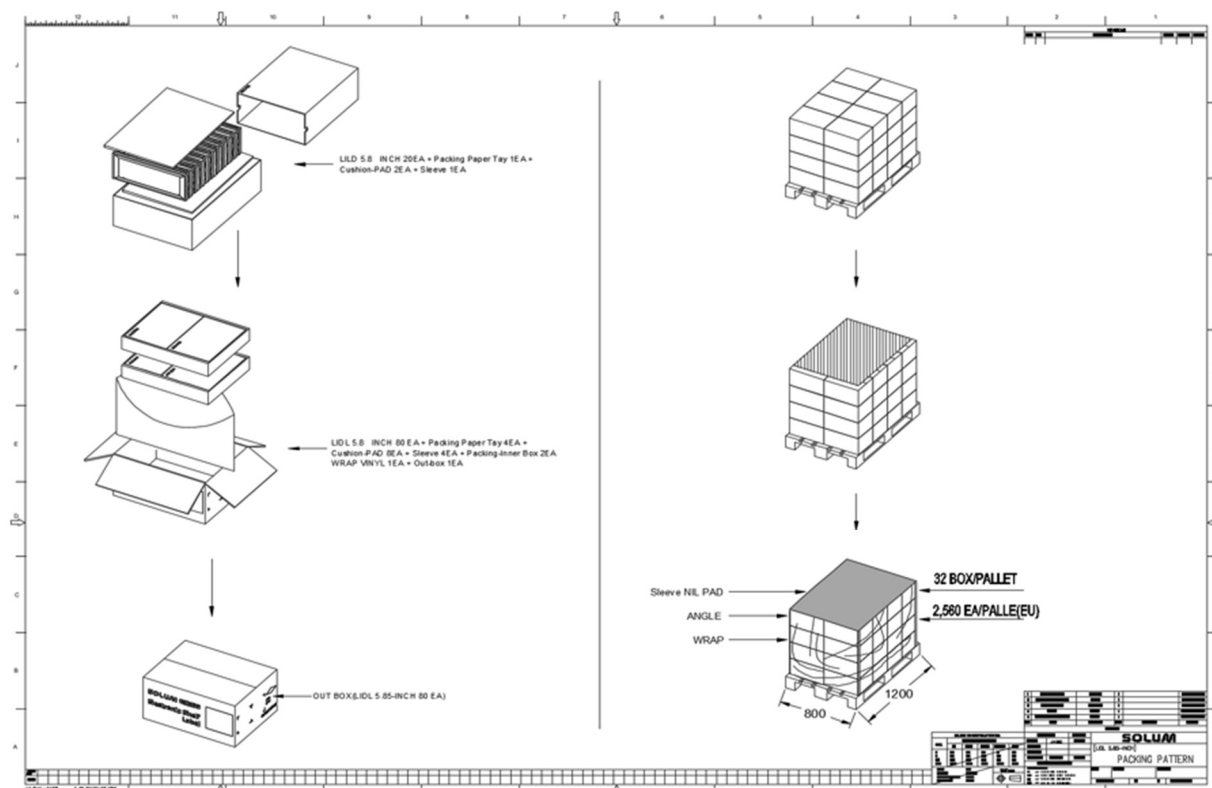


Figure 16. Package

6 Reliability Test

High Temperature Operation

Low Temperature Operation

High Temperature/Humidity Operation

High Temperature Storage

Temperature Shock (Storage)

ESD

Package Drop Test

Package Random Vibration Test

Test Item	Test Condition	Pass Criteria
High Temp Resistance	60°C / 35% (240hrs)	Normal operation after test
High Temp Operation	40°C / 35% (240hrs)	
Thermal Shock	-25°C (for 30mins) ~ 60°C (for 30mins) for 240 cycles	
High Temp & Humidity Operation	40°C / 70% (240hrs)	
Low Temp Operation	Normal ESL: 0°C (240hrs) Freezer ESL: -23°C (240hrs) Outdoor ESL : -20°C (240hrs)	
ESD Test	TYP. Air ±10KV, 150pF, 330Ω, 10 times/Point	
Water Proof (IEC60529)	Normal ESL: Not water resistant Freezer ESL, Outdoor ESL: 15cm x 15cm water tank, 1m depth of water, 30 minutes (IP67 criteria) for Newton Pro tags only	No water ingress into tag
RF Sensitivity (Communication Distance)	Gateway <-> Tag distance: 100 meters	Tag receives RF signal from Gateway

7 Product Handling Precautions

Provisions should be made to protect against any damage to the product caused by improper handling. The purchaser assumes any responsibility for damage to the product caused by improper handling.

Product should be stored in 32°F ~ 104°F (0°C ~ 40°C) @45~70% RH environment and should be installed within **90 days** of receipt.

7.1 Usage Environment

Take extra caution when using this RF device in the vicinity of other electronic devices and appliances. Most electronic devices and appliances use electromagnetic waves. Electromagnetic waves emitted by this RF device can affect other electronic devices and appliances.

If using the device in an explosion hazard area, follow all safety regulations, instructions, and signals.

7.2 Storage and Use

- Moisture and liquids can damage internal parts and circuit boards if allowed to enter into the device itself.
- Do not place or store the product on a sloped surface. The product may slide and fall off the surface and become damaged.
- Use the product in temperatures ranges of **0°C~40°C/32°F~104°F(3-Color/4-Color)**, **-25°C~0°C/-13~-32°F(Freezer)**, **-20°C~60°C/-4°F~140°F(Outdoor)**. Parts and circuits may be damaged if operated or stored in extreme temperature.
- The following phenomena may occur for outdoor products.
 - Long UV exposure can discolor the color of the product's appearance.
 - Ghosting image may occur when exposed to temperatures below -10°C/ 14°F for a long time.
 - When operating at temperatures above 40°C/104°F, sharpness may decrease.
 - Long exposure to high temperatures can shorten battery life than expected.
- The display panel needs extra care during handling.
 - Do not apply any impacts on the e-Paper display as it is fragile.
 - Continuous exposure to excessive moisture (over 70% RH) or UV shortens display lifetime.
 - Ghosting image may appear in temperature conditions of less than **15°C/59°F(3-Color/4-Color)**, **-25°C/ -13°F(Freezer)**, **-20°C/ -4°F(Outdoor) tags**. (If $\Delta L^* > 2$, we call it ghosting phenomenon)
- Avoid areas with strong magnetism or subject to magnetism.
Contact between the device and a magnetic object can lead to malfunctions.
- Do not place the product near heat-producing kitchen appliances like a stove or a microwave or

in the vicinity of highly pressurized containers.

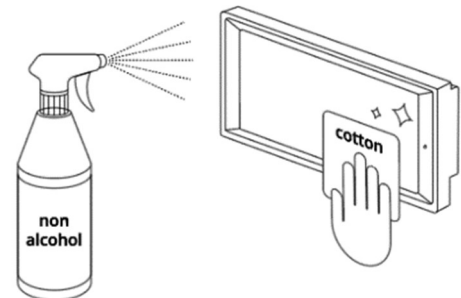
- External impact to the product, such as from being dropped, can damage the product.
- Twisting and bending the product can damage the exterior casing and the internal components.
- If this product operates abnormally while removing battery or replacing battery, it needs to be discharged by contacting the battery terminals (+) and (-) in the product.
- This product uses the 2.4GHz frequency band for the wireless communication network. Radio communications can be limited or affected by other applications that share the same frequency band, such as WiFi, Bluetooth, Zigbee, etc.
- A prior investigation into the radio environment is strongly required for efficient and smooth installation.
- Frequent communications, updates and screen renewals may reduce battery life time.
- Low temperature environments may reduce battery life.
- FIFO (First In First Out)

7.3 Product Cleaning

For Spray Cleaning:

Steps

- ① Lightly spray all surfaces and wait a few seconds.
- ② Gently wipe clean using a cloth or tissue.
- ③ Let the labels dry.



Notes:

- Use mild, non-alcoholic detergents or glass cleaner.
- Recommend non-abrasive cloths: Microfiber, Cotton T-shirt, Cotton handkerchief, Cotton tea towel

For Wet Tissue Cleaning:

Steps

- ① Stand or lay down the labels.
- ② Wipe using wet tissues.
- ③ Let the labels dry.



7.4 Battery Replacement

Audience

- Authorized personnel with the following knowledge are allowed to replace the battery:
Battery / Electronic assemblies (e.g. circuit board) / Compliance with the instruction
- ※ Note: Warranty is voided if battery is replaced by unauthorized personnel.
(When batteries require replacement, please contact the authorized personnel)

Instructions

- Risk of short circuit if battery is incorrectly installed/stored.
- Check that hands are dry before and at all times during the replacement process.
- Keep batteries away from children and infants.
- Do not heat, charge, bend, drop, short-circuit and/or disassemble battery.
- Do not mix together used and new batteries or different battery types.
- ※ Note: Battery rarely has minor stain or leak.

Steps

- ① Open the battery cover.
- ② Take out the batteries.
- ③ Put in the new batteries.
- ④ Check the batteries direction.
- ⑤ Put back in the battery cover.

Battery Directional

- Battery
 - Top: (+) Positive
 - Bottom: (-) Negative

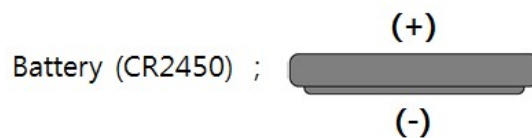


Figure 17. COIN BATTERY DIRECTION

- Battery Pack
 - Red Wire: (+) Positive
 - Black Wire: (-) Negative

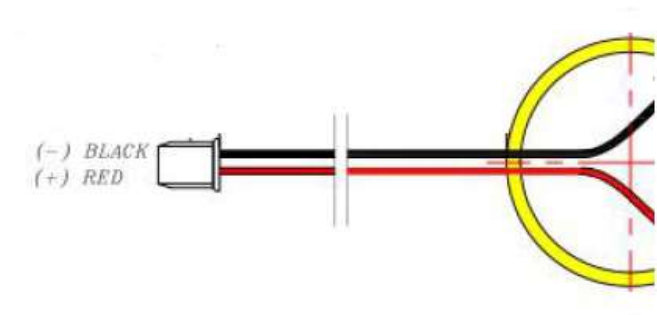


Figure 18. BATTERY PACK DIRECTION

7.5 Avoiding hazards in lithium battery handling

1. Do not short circuit (Fig. 1)

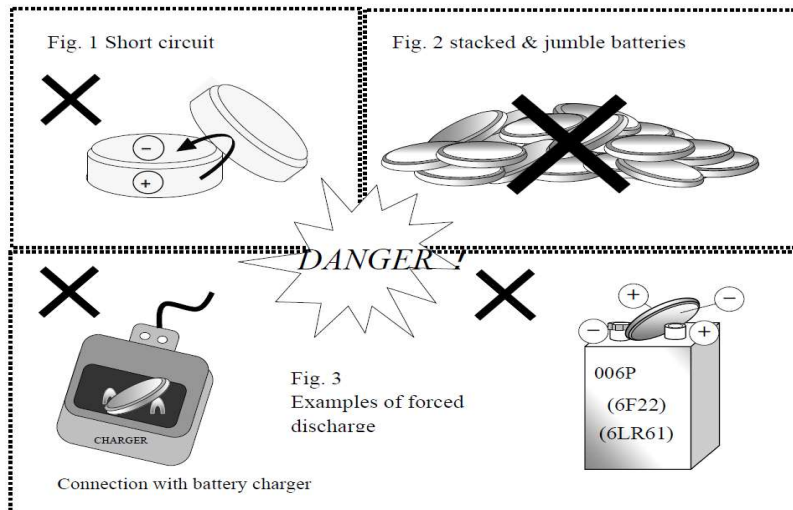
- . Direct connection of plus (+) and minus (-) poles may result in leakage, heat generation, explosion and/or fire.
- . Do not store and/or carry batteries with metallic items, such as a necklace.

2. Do not stack and/or jumble batteries (Fig. 2)

- . Stacked and/or jumbled batteries may cause a short circuit and/or forced discharge from contact with other batteries.
- . This may result in leakage, heat generation, explosion and/or fire.

3. Do not make forced discharge batteries (Fig. 3)

- . On a forced discharge by an external power source, the battery voltage goes to negative and this causes gas generation in inside of the battery.
- . This may result in leakage, heat generation, explosion and/or fire.



4. Do not dispose of batteries in fire

- . Disposal of batteries in fire is extremely dangerous with a risk of explosion and violent flaring.

5. Do not heat batteries

- . Heating batteries above 100 °C/212 °F may damage the resin in crimping, separator and other parts, potentially causing an electrolyte leak, internal short circuit, fire and/or explosion.

6. Do not solder directly onto batteries

- . Direct soldering onto batteries may damage the resin in crimping, separator and other parts, potentially causing an electrolyte leak, internal short circuit, fire and/or explosion.

7. Do not recharge batteries

- . Recharging of batteries may result in internal gas generation, causing electrolyte leak, battery swelling, fire and explosion.

8. Do not disassemble batteries

- . Disassembly of batteries may generate gas that may irritate your throat.
- . Lithium may also react with moisture to generate heat and fire.

9. Do not deform batteries

- . Applying extreme pressure to batteries may cause deformation of the crimping and internal short circuit, causing electrolyte leak, battery swelling, fire and explosion.

10. Do not mix different type batteries

- . For some applications, mixing different types of batteries or new and old batteries, can cause an overdischarge due to differences in voltage and discharge capacities.
- . This may lead to the risk of swelling and/or explosion.

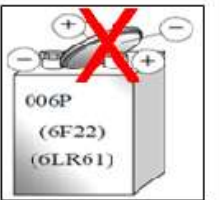
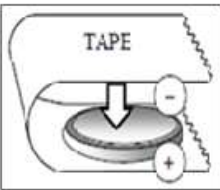
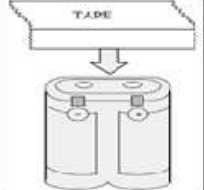
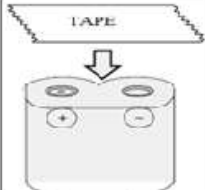
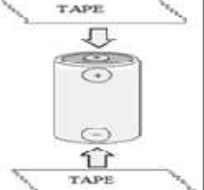
11. Do not insert batteries with opposite polarity

. For some applications, battery insertion with opposite polarity (reverse insertion of plus and minus) may result in leakage, heat generation, explosion and/or fire.

※ Please ensure the above precautions are strictly observed by related divisions including production, warehouse, product technology, sales, quality, customer stores, S/I companies, part-time workers, and external service companies.

7.6 Proper Storing and Disposing of Lithium Batteries

■ To minimize risk of fire and explosion of batteries, be sure to follow the instructions below.

NG	Do not stack batteries	Do not stack batteries in a vinyl bags	Do not Short circuit	Do not make forced discharge batteries	
					
OK	Using battery tray → Tape sealing	Tape attachment to "+/- electrodes			
					

■ Proper use of battery tray is outlined below.

With batteries properly placed into each tray slot → stack the trays in the same orientation → use an empty tray on the top stack → tape the stack together to avoid falling apart.



- Follow local regulations for proper battery disposal guideline.

8 Certifications

FCC Information to User (FCC ID : 2AFWN-EL026F2CRN)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution

THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

IMPORTANT NOTE : FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.