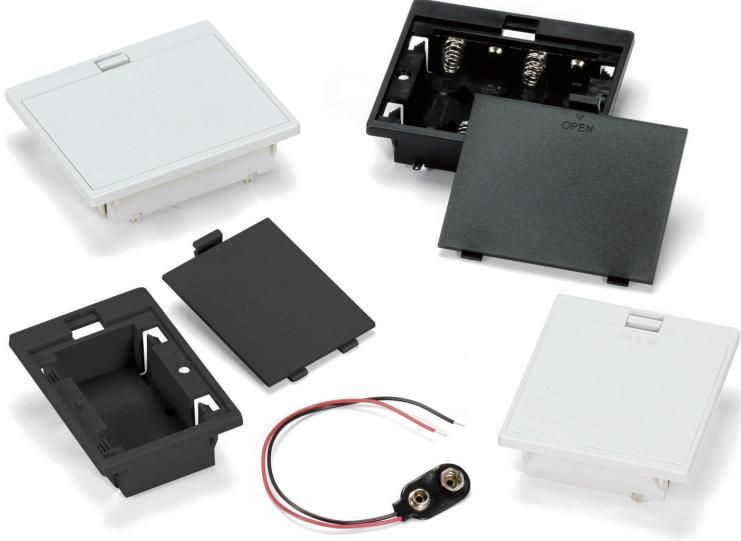


LD SERIES

SNAP-IN BATTERY BOX



Installation Example

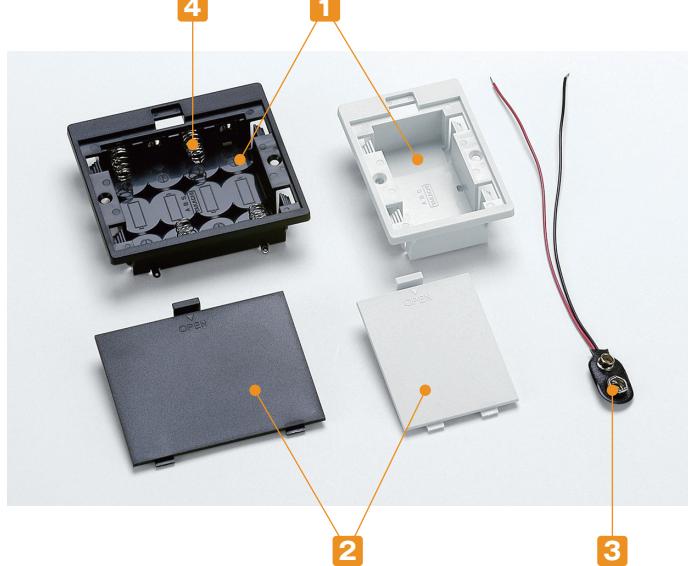


Technical Data

Operating temperature: -10°C ~ +60°C

- Snap-in battery box for enclosures.
- Suitable to be installed into enclosures with a panel thickness of 1.0mm to 3.0mm.
- Screw mounting is also possible with built-in M3 countersunk holes.
- \oplus \ominus markings are available to avoid incorrect placement of the battery.
- LD-006P box can be used with battery holder (see page SN • MP • BH211-1 ~ SN • MP • BH211-4).
- Battery dimensions may vary depending on country and brand.

Use optional battery cushion sponge to preventing rattling.



Accessories (Optional parts)

Battery cushion sponge SCM series
See page BH9V-2 • SCM-1

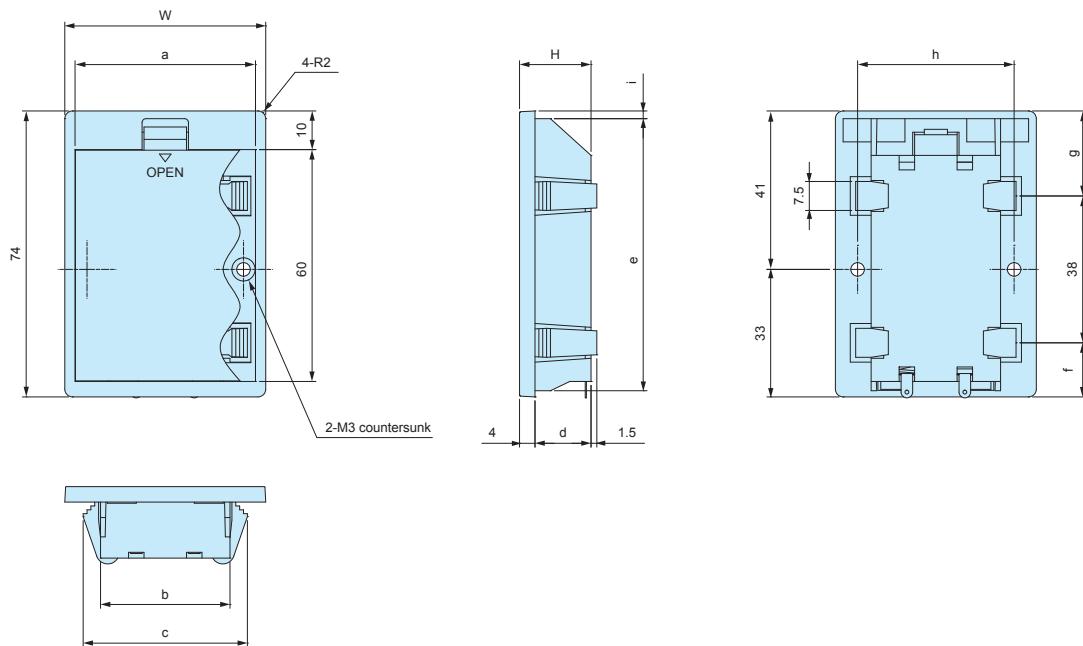
Components (LD-006P models)

No.	Part name	Material	Color
1	Box	ABS (UL94HB) • ABS (UL94V-0)	Black • White
2	Cover	ABS (UL94HB) • ABS (UL94V-0)	Black • White
3	Battery snap	PVC + Copper wire (UL1007 AWG26)	Black • Red/Black

Components (LD-2 • LD-3 • LD-4 models)

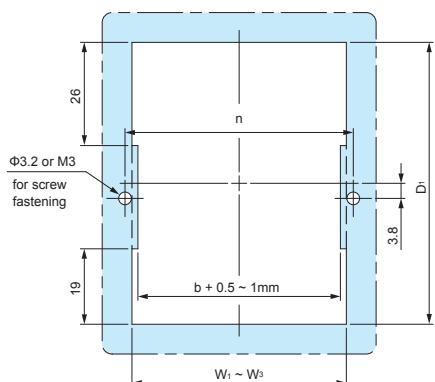
No.	Part name	Material	Color
1	Box	ABS (UL94HB) • ABS (UL94V-0)	Black • White
2	Cover	ABS (UL94HB) • ABS (UL94V-0)	Black • White
4	Battery contact	Brass t = 0.3 • Steel wire Ø 0.6	Nickel plated

LD dimensions



Product no.	W	H	a	b	c	d	e	f	g	h	i
LD-006P□	52	21.5	46.7	33.5	42.5	17.5	70.4	14	22	40.5	2
LD-2□	52	18.5	46.7	33.5	42.5	14.5	70.4	14	22	40.5	2
LD-3□	64.5	18.5	60.5	48	56.5	14.5	70.2	14.25	21.75	53	2.1
LD-4□	82	18.5	77	63.5	72.5	14.5	70.4	14	22	70.1	2

Mounting hole

※ Snap-in mounting hole required would be $D_1 \times W_1 \sim W_3$.

Hole dimensions

Product no.	W1 (thickness t = 1.0)	W2 (thickness t = 2.0)	W3 (thickness t = 3.0)	D ₁	n
LD-006P□ • LD-2□	36.5	38.5	40.5	70.6	40.5
LD-3□	51	52.5	54	70.4	53
LD-4□	66.5	68.5	70.5	70.6	70.1

■ $W_1 \sim W_3$ values differ depending on panel thickness; see above table to determine required dimension.

■ For mounting on panel thickness not listed above, please confirm before proceeding.

Product no. / Feature

Product no.			Matching battery	Weight (g)	Suitable cushion sponge
ABS		PC+ABS			
● Black	● Light gray	● White			
LD-006PB	LD-006PG	LD-006PW	9V x 1	24	SCM-2
LD-2B	LD-2G	LD-2W	AA x 2	24	SCM-1
LD-3B	LD-3G	LD-3W	AA x 3	26	SCM-1
LD-4B	LD-4G	LD-4W	AA x 4	35	SCM-1

LDN SERIES

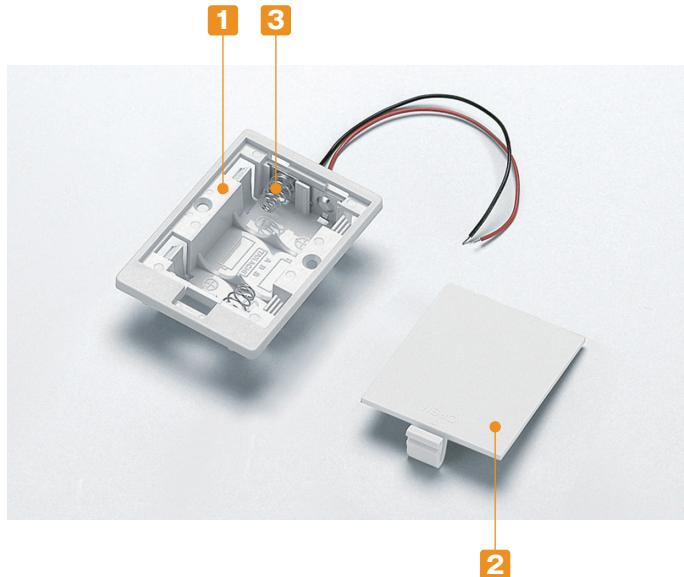
SNAP-IN BATTERY BOX with LEAD WIRE



Technical Data

Operating temperature: -10°C ~ +60°C

- Snap-in battery box for enclosures.
- Suitable to be installed into enclosures with a panel thickness of 1.0mm to 3.0mm.
- Screw mounting is also possible with built-in M3 countersunk holes.
- Lead-free soldered lead wire (UL certified $l = 140\text{mm}$).
- $\oplus \ominus$ markings are available to avoid incorrect placement of the battery.
- Battery dimensions may vary depending on country and brand.
Use optional battery cushion sponge to preventing rattling.



Accessories (Optional parts)



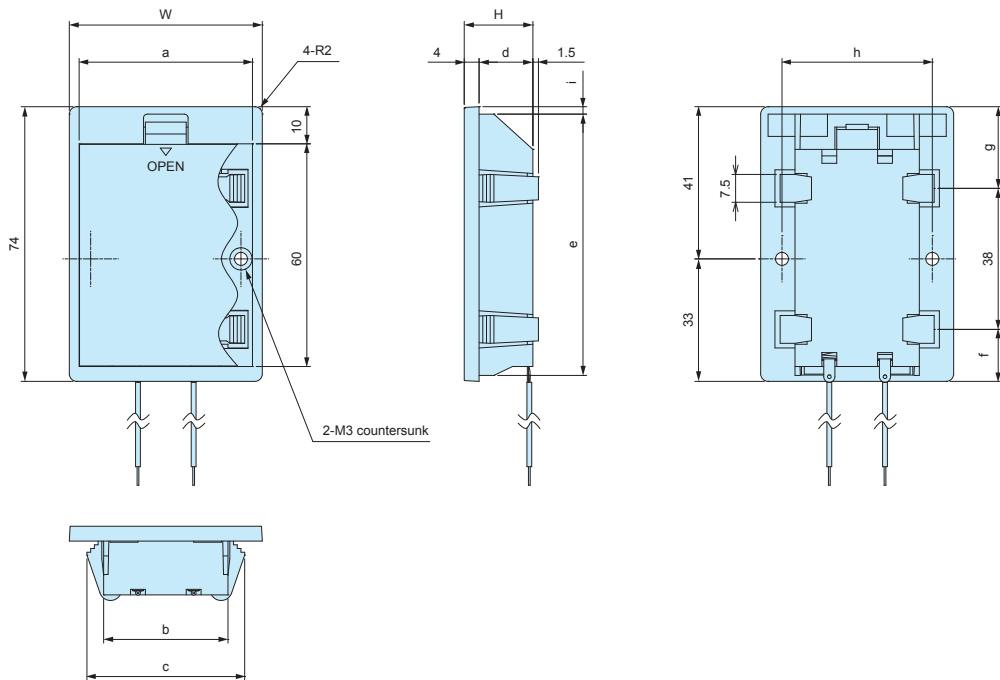
Battery cushion sponge SCM series
See page BH9V-2 • SCM-1

Components (LD-2 • LD-3 • LD-4 models)

No.	Part name	Material	Color
1	Box	ABS (UL94HB) • ABS (UL94V-0)	Black • White
2	Cover	ABS (UL94HB) • ABS (UL94V-0)	Black • White
3	Battery contact with Lead wire	Brass $t = 0.3$ • Steel wire $\Phi 0.6$ PVC + Copper wire $L = 140\text{mm}$ (UL1007 AWG26)	Nickel plated Red • Black

LDN dimensions

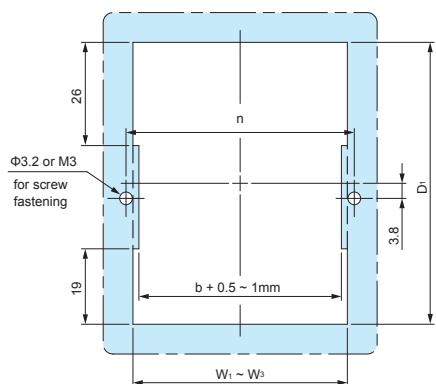
- DXF/DWG/PDF drawings available on our website.
- Lead wire • battery contact position vary by models.
- See page MP-1 for the details of battery snap.



Product no.	W	H	a	b	c	d	e	f	g	h	i
LDN-2□	52	18.5	46.7	33.5	42.5	14.5	70.4	14	22	40.5	2
LDN-3□	64.5	18.5	60.5	48	56.5	14.5	70.2	14.25	21.75	53	2.1
LDN-4□	82	18.5	77	63.5	72.5	14.5	70.4	14	22	70.1	2

Mounting hole

※ Snap-in mounting hole required would be $D_1 \times W_1 \sim W_3$



Hole dimensions

Product no.	W1 (thickness t = 1.0)	W2 (thickness t = 2.0)	W3 (thickness t = 3.0)	D ₁	n
LDN-2□	36.5	38.5	40.5	70.6	40.5
LDN-3□	51	52.5	54	70.4	53
LDN-4□	66.5	68.5	70.5	70.6	70.1

- $W_1 \sim W_3$ values differ depending on panel thickness; see above table to determine required dimension.
- For mounting on panel thickness not listed above, please confirm before proceeding.

Product no. / Feature

Product no.		Matching battery	Weight (g)	Suitable cushion sponge			
ABS							
● Black	● Light gray						
LDN-2B	LDN-2G	LDN-2W	AA x 2	24			
LDN-3B	LDN-3G	LDN-3W	AA x 3	26			
LDN-4B	LDN-4G	LDN-4W	AA x 4	35			

BC series

EMBEDDED BATTERY BOX



Technical Data

Operating temperature: -10°C ~ +60°C

Mount Example



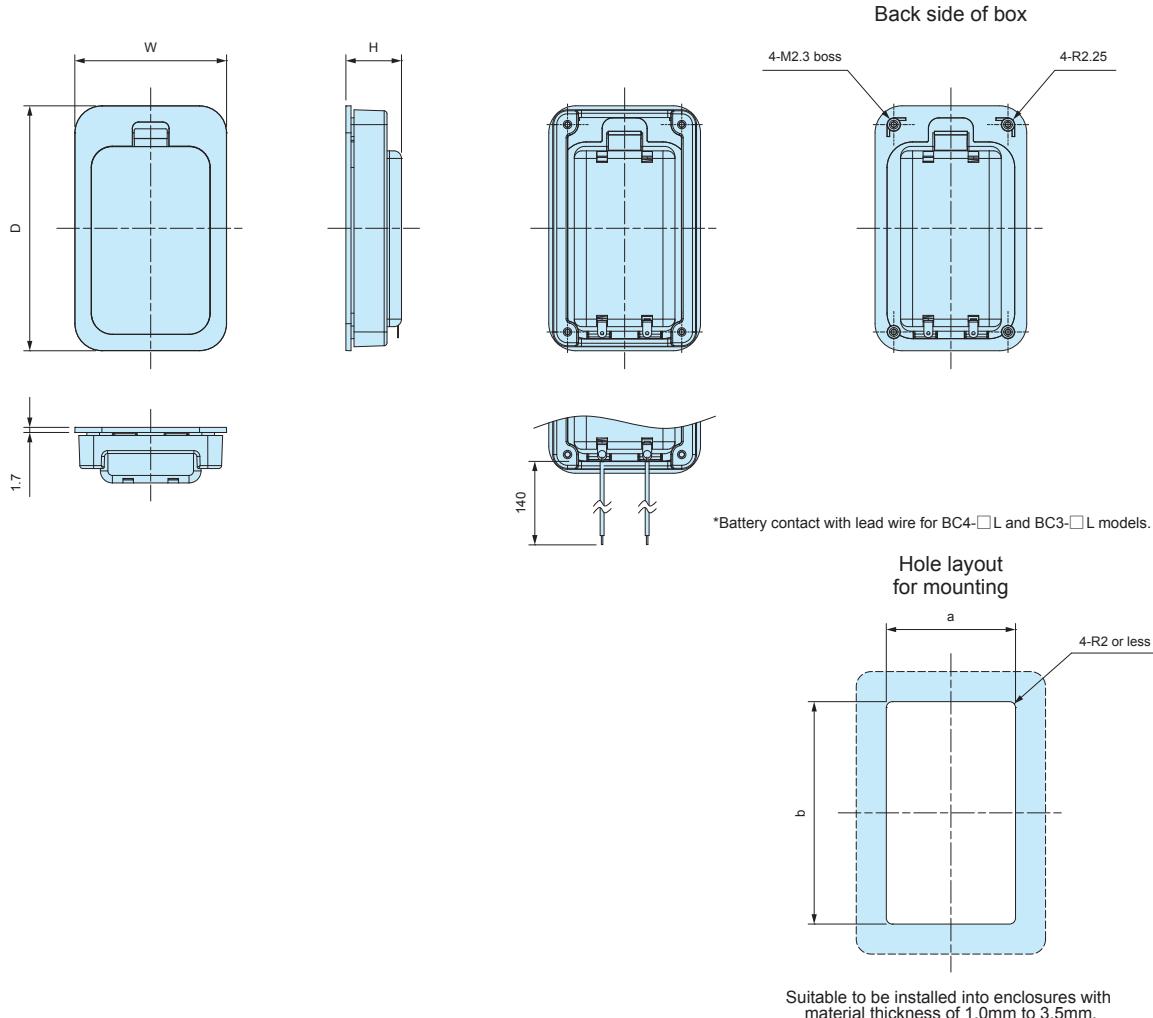
- Suitable to be installed into enclosures with material thickness of 1.0mm to 3.5mm.
- Cover can be opened/closed without any tool for easy battery replacement.
- 5 different battery layouts are available as AA x 2, AA x 3, AA x 4, AAA x 2 and AAA x 4. Each layout comes in 2 models: with lead-wire, and without lead-wire.
- $\oplus\ominus$ markings prevents incorrect placement of battery.
- The dimensions of alkaline or manganese batteries may vary depending on country and brand. Use optional battery cushion sponge to prevent rattling.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Box	1	ABS UL94V-0	Black • Off-white
2	Cover	1	ABS UL94V-0	Black • Off-white
3	Frame	1	ABS UL94V-0	Black • Off-white
4	Battery contact Lead wire (BC-L models)	1 set	Battery contact : Brass & steel wire Lead wire : PVC + Copper wire (UL1007 AWG26)	Nickel plated Black • Red
5	Self-tapping screw	4	Steel	Nickel plated

BC dimensions

- DXF/DWG/PDF/STP drawings available on our website.
- The shape and position of battery contacts vary by model.



Type: Without Lead Wire

Product no. / Details

Product no.		Dimensions					Battery layout	Weight (g)
● Black	● Off-white	W	H	D	a	b		
BC4-2-B	BC4-2-W	40	14.8	78.5	32.5	71	*AAA x 2	24.5
BC4-4-B	BC4-4-W	62	14.8	78.5	54.5	71	*AAA x 4	34.5
BC3-2-B	BC3-2-W	50.5	18.5	81.5	43	74	*AA x 2	31.5
BC3-3-B	BC3-3-W	65.5	18.5	81.5	58	74	*AA x 3	39
BC3-4-B	BC3-4-W	80.5	18.5	81.5	73	74	*AA x 4	46

*Alkaline or manganese batteries

Type: With Lead Wire

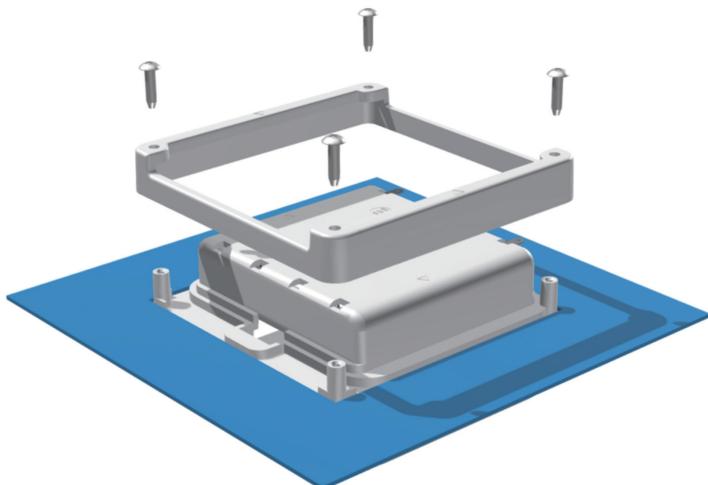
Product no. / Details

Product no.		Dimensions					Battery layout	Weight (g)
● Black	● Off-white	W	H	D	a	b		
BC4-2L-B	BC4-2L-W	40	14.8	78.5	32.5	71	*AAA x 2	25.5
BC4-4L-B	BC4-4L-W	62	14.8	78.5	54.5	71	*AAA x 4	35.5
BC3-2L-B	BC3-2L-W	50.5	18.5	81.5	43	74	*AA x 2	32.5
BC3-3L-B	BC3-3L-W	65.5	18.5	81.5	58	74	*AA x 3	40
BC3-4L-B	BC3-4L-W	80.5	18.5	81.5	73	74	*AA x 4	47

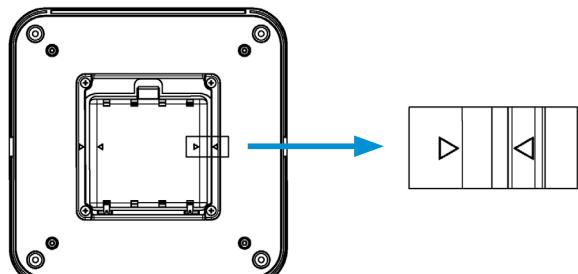
*Alkaline or manganese batteries

How to mount on the enclosures

- Insert battery box into the milled hole first, and fit the frame on the back side. Once mounted, secure the frame with screws.



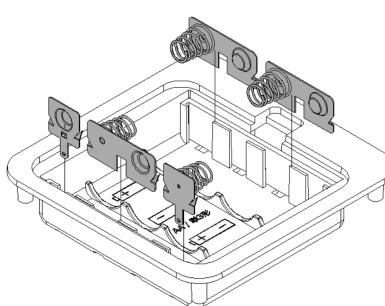
- For BC3-4□ models, ▷ markings are shown on the frame. Install by matching the markings.



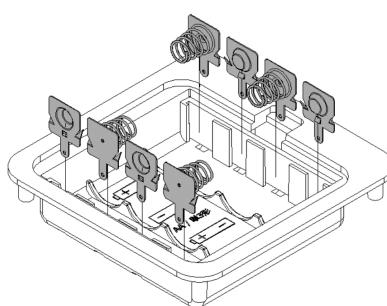
Parallel circuit conversion on BC series battery box

- BC-3□ models can be converted from a series to a parallel circuit. See below illustration for further details.
- IT series (IT-3 models) optional battery contacts can be used for parallel circuit conversion. (See website for more information)
- Use caution when installing or replacing the terminals to avoid the damage to the material.
- Parallel series conversion is available via our customization services.

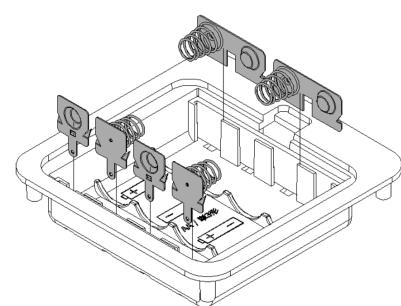
Conversion Example



Series Circuit (Standard)



Parallel Circuit (4 batteries)



Parallel Circuit (2 batteries x 2)

Customization Available



For more information, contact us here:

Online form: https://www.takachi-enclosure.com/contact/form_contact
E-mail : sales@takachi-el.co.jp

Mount Example



■ BC series battery boxes can also be mounted on aluminium enclosures.