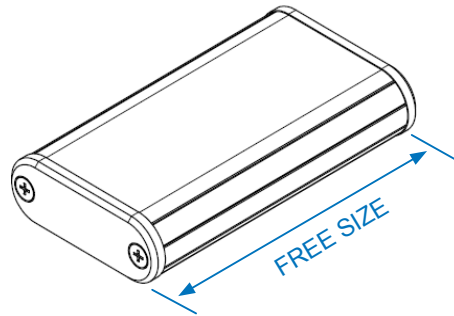
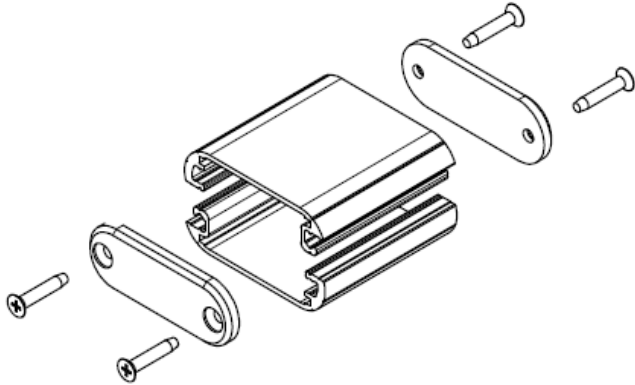


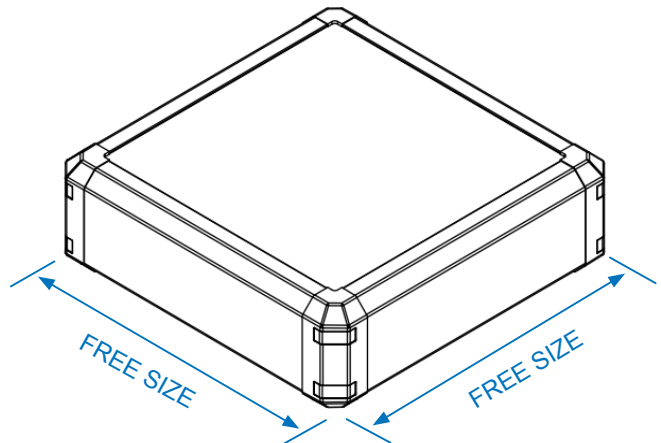
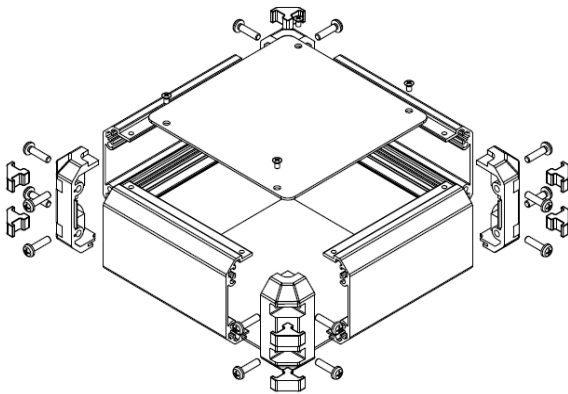
VARIETY OF CUSTOM SIZED ENCLOSURES

Extruded models are adjustable in extrusion length (depth) in 0.1mm or 1.0mm intervals.
Sheet-metal models are adjustable in W/D/H dimensions in 1.0mm intervals.

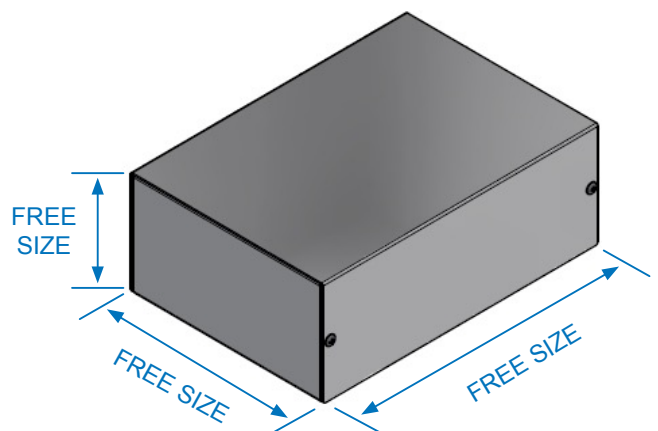
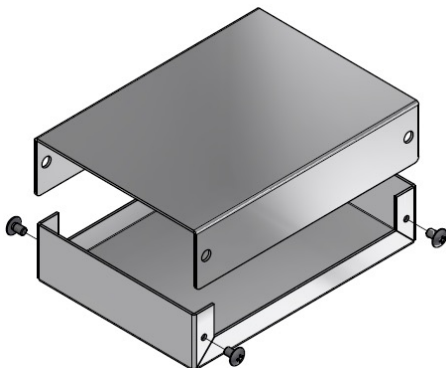
EXTRUDED ALUMINIUM MODEL



4 SIDE-EXTRUDED ALUMINIUM MODEL



SHEET METAL MODEL



More custom sized models are available.

https://www.takachi-enclosure.com/cat/flexible_size

INQUIRING CUSTOM SIZED ENCLOSURES

- 1 Navigate to the free-size product page you wish to inquire on our website and click on the button indicated by the  arrow.



Custom sized shock-proof design instrument enclosure.
Corner guards are designed to be both aesthetically pleasing, and impact resistant.

Selectable 22 different Width/Height profiles and specified length (depth) from 40 to 500mm in 1mm intervals.
16 different color combinations can be specified.

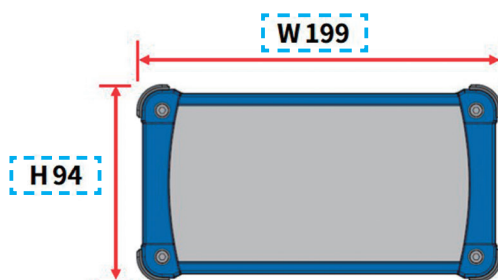


CUSTOM SIZE WEB QUOTATION	3D View - Silver/Navy	3D View - 16 color types
3D View - With tilt legs	Exploded view	Color code

■ If there is no "WEB QUOTATION" click button, please send us your inquiry from the "INQUIRY FORM" on the CONTACT tab on our website.

- 2 Go to the CUSTOM SIZE WEB QUOTATION page and enter your preferred dimensions.

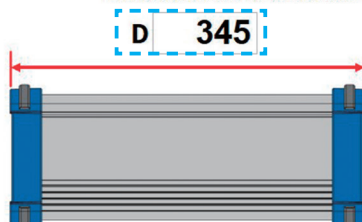
STEP1 Select required width / height.



Select	W	H	Select	W	H
☐	69	34	☐	151	81
☐	69	44	☐	151	101
☐	69	59	☐	199	56
☐	89	39	☐	199	74
☐	89	49	☒	199	94
☐	89	64	☐	199	119
☐	116	41	☐	244	64
☐	116	56	☐	244	89
☐	116	71	☐	244	114
☐	151	46	☐	300	90
☐	151	61	☐	300	140

STEP2 Specify size D(depth) ... Enter dimensions in 1mm intervals.

Available from 40 to 500mm



*NOTE: Specified size D(depth) $\neq$ available internal dimension

Available internal dimension = **D dimension - 20mm**

Please take caution when calculating required D dimension.

- 3 After entering the quantity, click on the button indicated by the → arrow to generate a Product No.

STEP4 **Quantity** ※Quantity can be specified up to 5 slots.

pcs

▶Add quantity



▶ **GENERATE PRODUCT NO.**

Product No. **EXPS199 – 94 – 345SN** ※Please use this model number when ordering.

- 4 After entering your details and the message in our INQUIRY FORM, click on the CONFIRM button.

STEP5 **INQUIRY FORM**

Fill out the inquiry form and send it. We will give you quotation by Email.
Inquiry from the country where the distributor is located will be answered by the distributor.

Fields marked with ★ are required

Product No. **EXPS199-94-345SN** Quantity ★

E-mail ★

Company ★

Your name ★ ☐ Mr. ☒ Ms. First name Last name

Country ★

Message

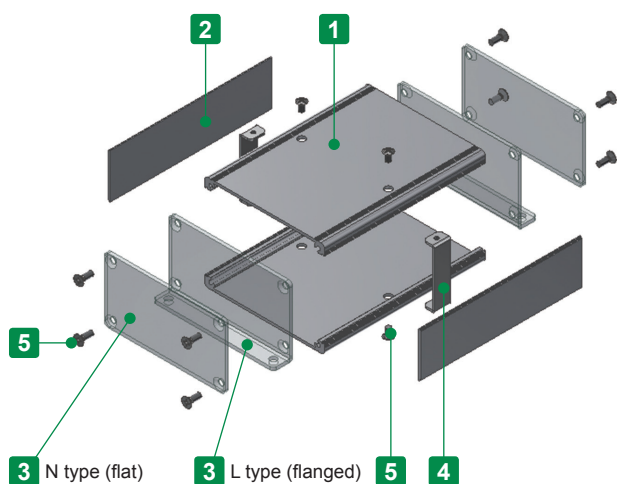
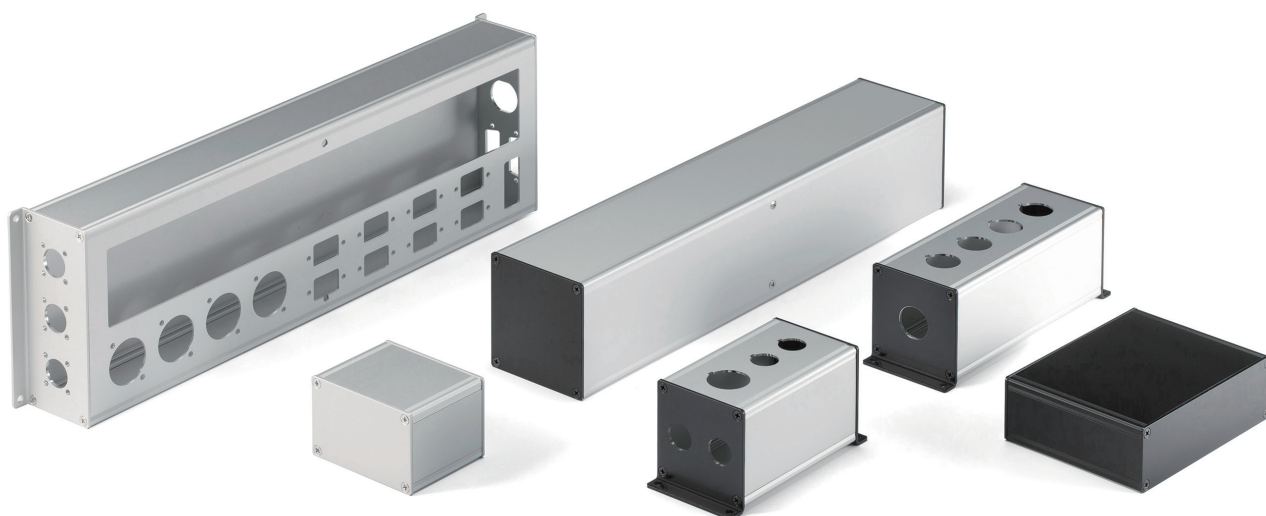


▶ **CONFIRM**

Our privacy policy have been designed to ensure that personal information is not misused or used for purposes other than it is intended for.
[PRIVACY POLICY](#)

- 5 A TAKACHI sales representative will get in touch with you with a quote via e-mail.



KCF SERIES**CUSTOM SIZED EXTRUDED ALUMINIUM ENCLOSURE**

- Custom length aluminium enclosure. Selectable in 42 different width/height types with adjustable length from 30 to 1,000mm in 1mm intervals.
- Selectable in 4 different color combinations, with a flat type, or flanged type end panels.
- Made entirely of aluminium parts. Suitable to be used for wall mounting, or as a portable handheld unit.

Included screws
Slotted raised countersunk M3-5 x 0 ~ 12
Countersunk M3-8 (M2.6-8 for W20 models) x 8

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top • bottom frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized
2	Side frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized
3	End panel	2	Aluminium A1050P	Silver • Black / Anodized
4	*Bracket	0 ~ 6	Steel SECC	Zinc coated
5	Screw	1 set	Steel	Nickel plated • Black trivalent chromate

* D length of 304mm or larger includes brackets.

Values within () are for W20 models.

D length	30 ~ 303	304 ~ 599	600 ~ 899	900 ~ 1,000
Pcs of bracket	-	2 (1)	4 (2)	6 (3)

The position where the bracket(s) are installed vary by D length. [Bracket installation holes are pre-drilled.]
Refer to the chart on page KCF-3 for the positions of bracket(s).

Confirm Product No.

Confirm the custom sized product number in the following order format as below.

Product no. KCF

- -
W **H** **D** **End panel code** **Color code**



Image : KCF75-50-96LSB

Example : W = 75 mm, H = 50 mm, D = 96mm, L type (flanged) end panels / SB color

KCF 75 - 50 - 96 L SB

1 Specify Dimensions

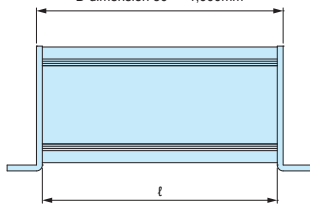
Select W x H type, and specify D dimension.

D \ W	W 20	W 50	W 60	W 75	W 100	W 125	W 150
H30							
H40							
H50							
H60							
H70							
H90							

D dimension

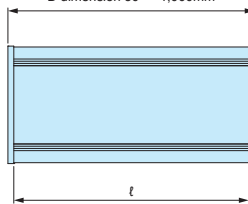
L type (flanged)

D dimension 30 ~ 1,000mm



N type (flat)

D dimension 30 ~ 1,000mm



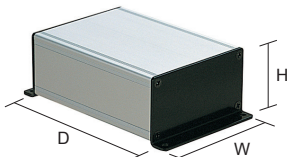
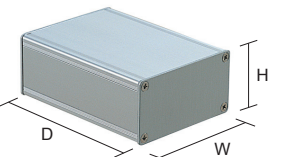
* D dimension includes panel thickness. Please include panel thickness when selecting the size.

■ D dimension in 0.1mm intervals is possible, but with higher tolerances ($\pm 0.3\text{mm}$).

■ $l = D - 4\text{mm}$

2 Select End Panel Shape

Select from L (flanged) or N (flat) types.

Code	L (flanged)	N (flat)
Shape		

■ Refer to the drawings on page KCF-3 for the dimensions.

3 Select Color Code

Select from below 4 available color patterns

Code	SS	SB	BS	BB
Top • Bottom frame / Side frame	Silver	Silver	Black	Black
End panels	Silver	Black	Silver	Black

Lead time

Custom Size Only
Custom Size + Hole Milling

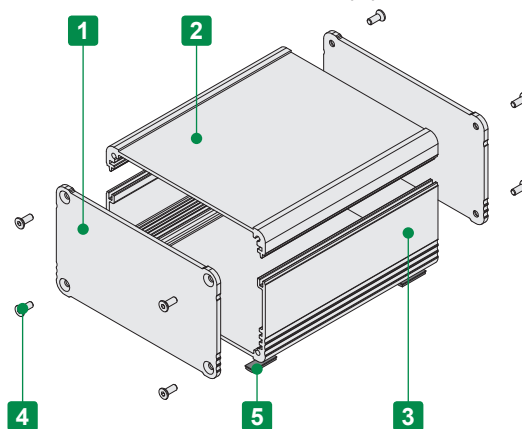
4 business days (1 ~ 10 pcs)
10 business days (1 ~ 10 pcs)

Order Inquiry

For more information, contact us here at sales@takachi-el.co.jp



- Simple yet beautifully designed aluminium extrusion enclosure.
- 2 new Width/Height types added. Selectable in 22 different Width/Height types, with adjustable length (depth) in 1mm intervals from 40 to 500mm.
- High-end finish is achieved by precision CNC of the end panels. Suitable for industrial and audio interface equipment.



Components

No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1100P	Silver • Black / Anodized
2	Top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Screw (Hexagonal)	8	Stainless steel	Unfinished
5	Rubber feet	4	Polyurethane • Synthetic rubber	Black

■ See page EX-Cover-1 ~ EX-Cover-4 for Top / Bottom cover dimensions.

■ Rubber feet material : Polyurethane : EXS61-26 ~ 187-107 models • Synthetic rubber : EXS232-57 ~ 288-128 models

Lead Time

Custom Size Only
Custom Size + Hole Milling

4 business days (1 ~ 3 pcs)
9 business days (1 ~ 3 pcs)

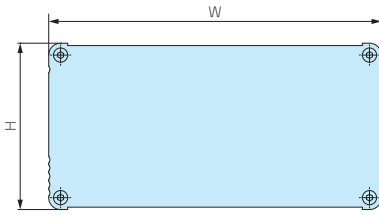
Order Inquiry

For more information, contact us here at sales@takachi-el.co.jp

1 Dimensions

To select W-H dimensions from the table below, and D length in 1mm intervals.

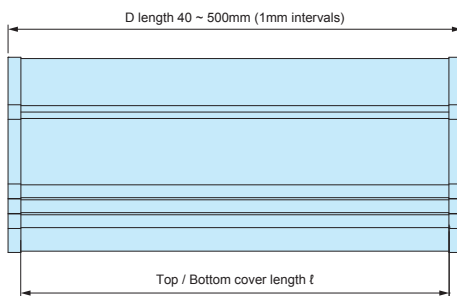
Width-Height dimensions



W-H No.	W	H
61- 26	60.6	25.6
61- 36	60.6	35.6
61- 51	60.6	50.6
81- 31	80.6	30.6
81- 41	80.6	40.6
81- 56	80.6	55.6
106- 31	106	31
106- 46	106	46
106- 61	106	61
141- 36	141	36
141- 51	141	51

W-H No.	W	H
141- 71	141	71
141- 91	141	91
187- 44	186.5	43.5
187- 62	186.5	61.5
187- 82	186.5	81.5
187-107	186.5	106.5
232- 52	232	52
232- 77	232	77
232-102	232	102
NEW 288- 78	287.5	77.5
NEW 288-128	287.5	127.5

D length



W-H No.	ℓ
61-□	D-4
81-□	D-4
106-□	D-5
141-□	D-5
187-□	D-5
232-□	D-6
288-□	D-6

■ D length can be requested in 0.1mm intervals, but with higher tolerances (±0.3mm).

■ See page EX-Cover-1 ~ EX-Cover-4 for Top/Bottom cover dimensions.

2 Color

To select color code from the table below.

Code	[S][S] Silver / Silver	[S][B] Silver / Black	[B][S] Black / Silver	[B][B] Black / Black
Color				

Product Number

To determine a product number, fill W-H, D length and select Color code in the following blank boxes.

Product no. EXS

1 W-H

-

1 D length

2 Color code

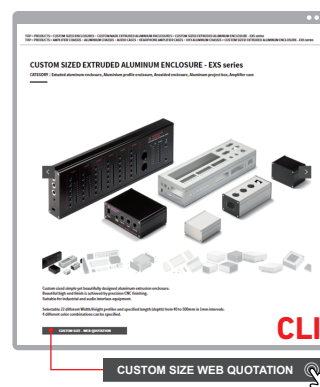
Numbering example: W-H:106-46 x D:124 and BB color code → **EXS106-46-124BB**

CUSTOM SIZE WEB QUOTATION

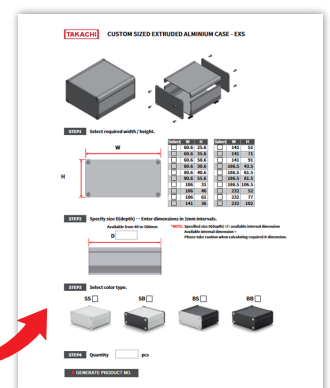
Send your inquiry via our online form now!

Visit the EXS product page on our website, click on the "CUSTOM SIZE WEB QUOTATION" button, and fill in the required details.

The product number will be generated, and once your information have been filled in, simply click on SUBMIT and await for our sales team's contact!

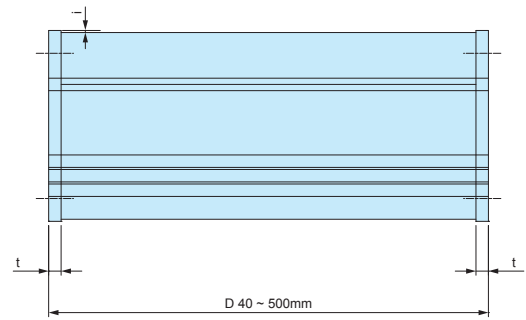
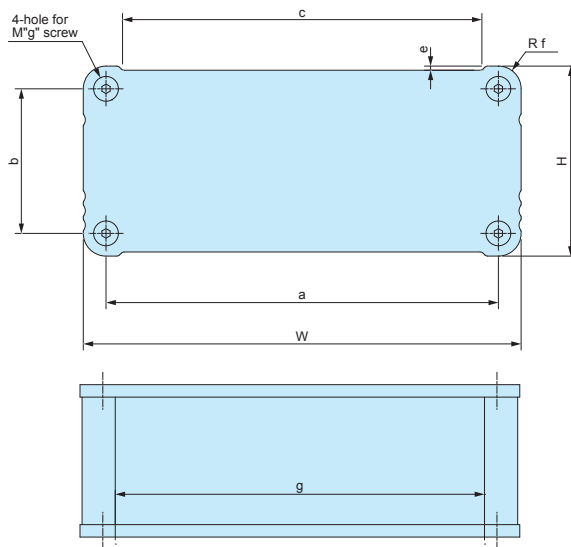


CLICK!



EXS dimensions

■ DXF/DWG/PDF drawings available on our website.

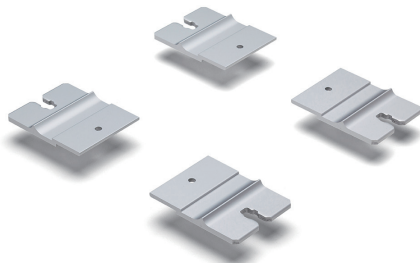


Included screws

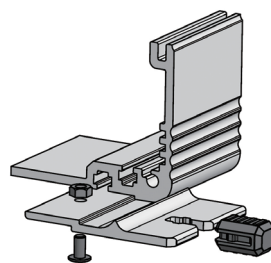
EXS61-□, 81-□ models : M2.5-8 x 8 pcs
 EXS106-□, 141-□ models : M3-8 x 8 pcs
 EXS187-□ models : M4-10 x 8 pcs
 EXS232-□, 288-□ models : M5-10 x 8 pcs
 ※Hexagonal wrench included.

Product no.	W	H	a	b	c	d	e	f	g	i	t
EXS 61- 26-□	60.6	25.6	52	17	45.2	2.5	0.9	4.3	47	0.3	2
EXS 61- 36-□	60.6	35.6	52	27	45.2	2.5	0.9	4.3	47	0.3	2
EXS 61- 51-□	60.6	50.6	52	42	45.2	2.5	0.9	4.3	47	0.3	2
EXS 81- 31-□	80.6	30.6	72	22	65.2	2.5	0.9	4.3	67	0.3	2
EXS 81- 41-□	80.6	40.6	72	32	65.2	2.5	0.9	4.3	67	0.3	2
EXS 81- 56-□	80.6	55.6	72	47	65.2	2.5	0.9	4.3	67	0.3	2
EXS106- 31-□	106	31	95	20	87	3	1	5.5	89	0.5	2.5
EXS106- 46-□	106	46	95	35	87	3	1	5.5	89	0.5	2.5
EXS106- 61-□	106	61	95	50	87	3	1	5.5	89	0.5	2.5
EXS141- 36-□	141	36	130	25	122	3	1	5.5	124	0.5	2.5
EXS141- 51-□	141	51	130	40	122	3	1	5.5	124	0.5	2.5
EXS141- 71-□	141	71	130	60	122	3	1	5.5	124	0.5	2.5
EXS141- 91-□	141	91	130	80	122	3	1	5.5	124	0.5	2.5
EXS187- 44-□	186.5	43.5	173	30	160	4	1	6.75	162	0.75	2.5
EXS187- 62-□	186.5	61.5	173	48	160	4	1	6.75	162	0.75	2.5
EXS187- 82-□	186.5	81.5	173	68	160	4	1	6.75	162	0.75	2.5
EXS187-107-□	186.5	106.5	173	93	160	4	1	6.75	162	0.75	2.5
EXS232- 52-□	232	52	218	38	205	5	1	7	207	1	3
EXS232- 77-□	232	77	218	63	205	5	1	7	207	1	3
EXS232-102-□	232	102	218	88	205	5	1	7	207	1	3
EXS288- 78-□	287.5	77.5	272	62	260	5	1	7.75	262	1.25	3
EXS288-128-□	287.5	127.5	272	112	260	5	1	7.75	262	1.25	3

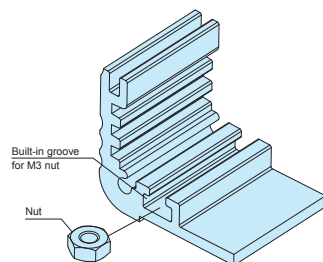
Accessories (Optional parts)



Wall mounting bracket EF-36 series
 See page EF-36 • MT-3N



Embedded battery box BC series
 See page 125 ~ 128



Sliding nut MT-3N
 See page EF-36 • MT-3N



Aluminium isolation feet AFM • AFS series
 See page 293 ~ 294

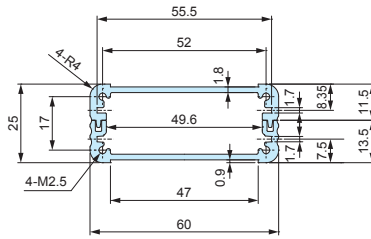


Insert nut adhesive standoff AST series
 See page 121

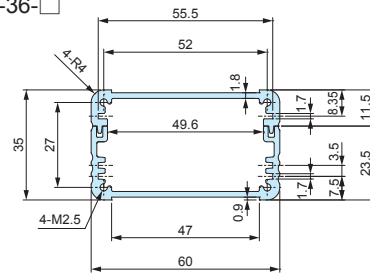
Cross-section view of top & bottom covers

■ DXF/DWG/PDF drawings available on our website.

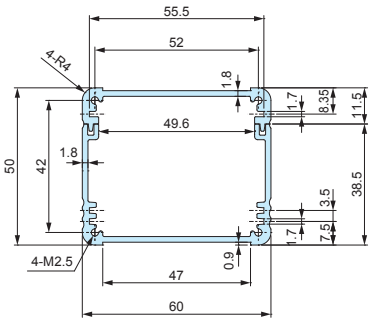
EXPS • EXWS 69-34-□
EXPFS • EXWFS 66-34-□
EXS 61-26-□



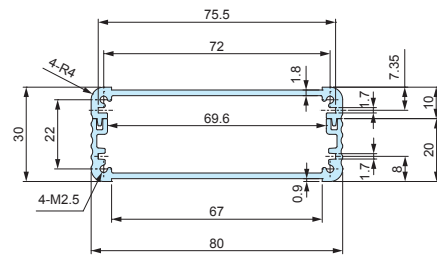
EXPS • EXWS 69-44-□
EXPFS • EXWFS 66-44-□
EXS 61-36-□



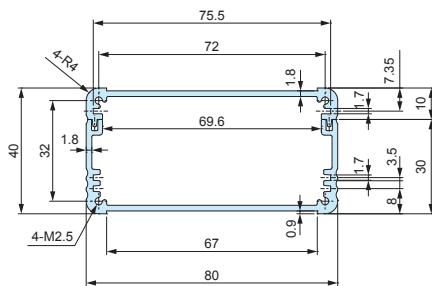
EXPS • EXWS 69-59-□
EXPFS • EXWFS 66-59-□
EXS 61-51-□



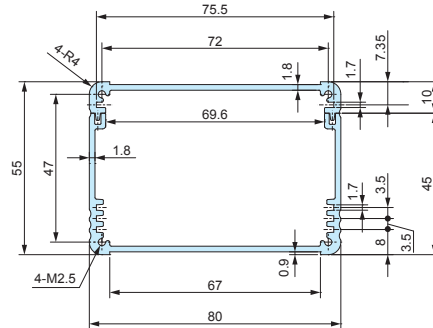
EXPS • EXWS 89-39-□
EXPFS • EXWFS 86-39-□
EXS 81-31-□



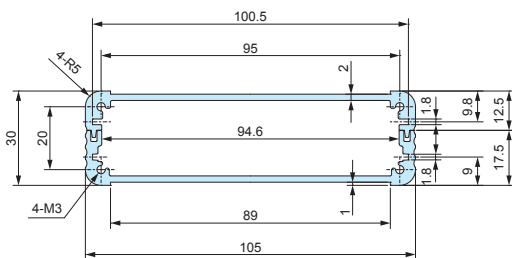
EXPS • EXWS 89-49-□
EXPFS • EXWFS 86-49-□
EXS 81-41-□



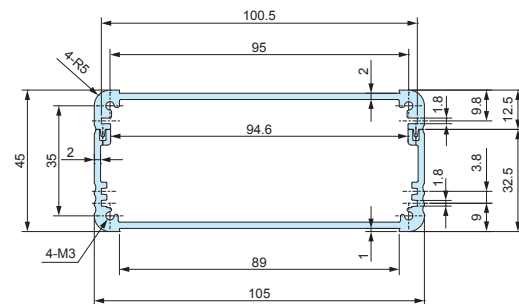
EXPS • EXWS 89-64-□
EXPFS • EXWFS 86-64-□
EXS 81-56-□



EXPS • EXWS 116-41-□
EXPFS • EXWFS 113-42-□
EXS 106-31-□



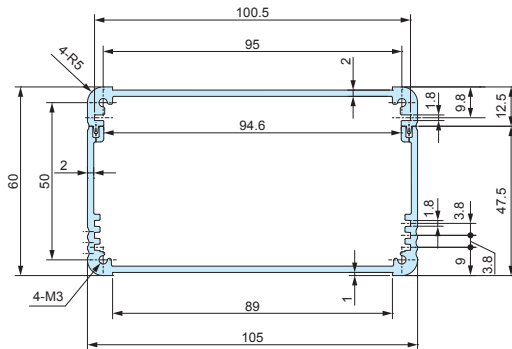
EXPS • EXWS 116-56-□
EXPFS • EXWFS 113-57-□
EXS 106-46-□



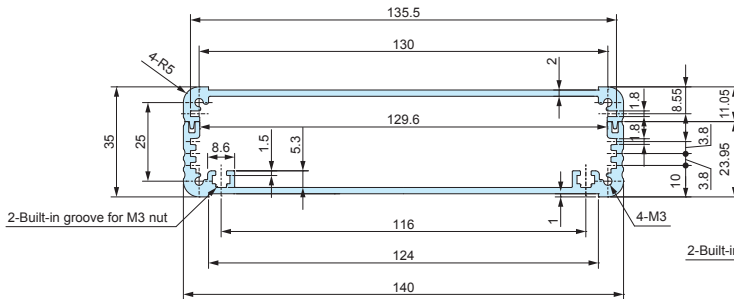
Cross-section view of top & bottom covers

■ DXF/DWG/PDF drawings available on our website.

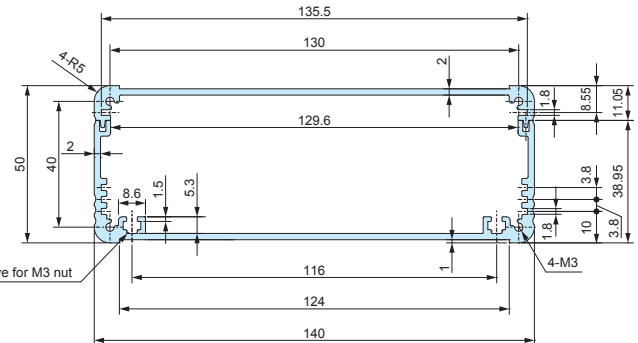
EXPS • EXWS 116-71-□
 EXPFS • EXWFS 113-72-□
 EXS 106-61-□



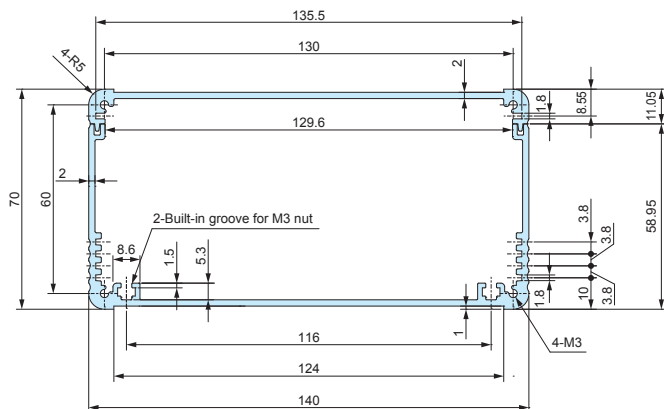
EXPS • EXWS 151-46-□
 EXPFS • EXWFS 148-47-□
 EXS 141-36-□



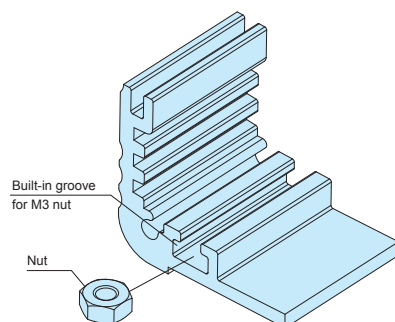
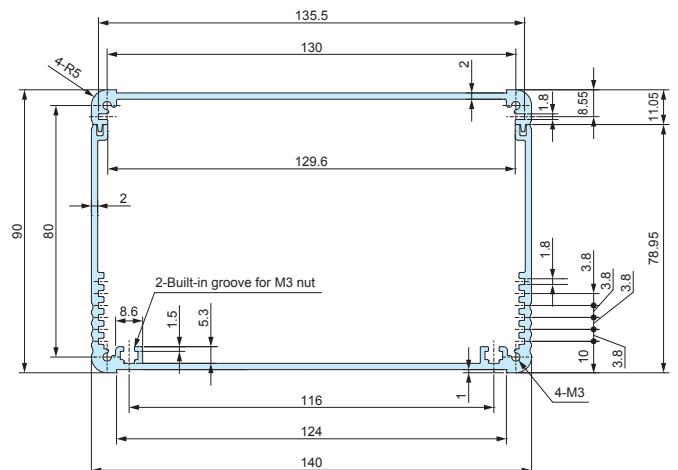
EXPS • EXWS 151-61-□
 EXPFS • EXWFS 148-62-□
 EXS 141-51-□



EXPS • EXWS 151-81-□
 EXPFS • EXWFS 148-82-□
 EXS 141-71-□



EXPS • EXWS 151-101-□
 EXPFS • EXWFS 148-102-□
 EXS 141-91-□

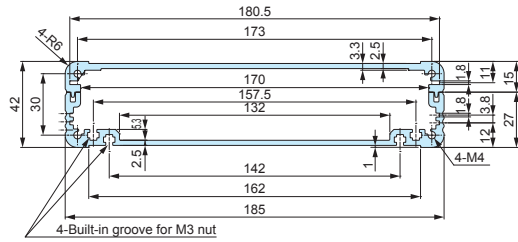


■ Optional M3 nut is available.
 Sliding nut can be used on EXPS • EXPFS • EXWS •
 EXWFS • EXS models with width 140mm or larger
 bottom covers and with width 230mm and 285mm
 top covers.
 See page EF-36 • MT-3N for MT-3N optional M3 nut.

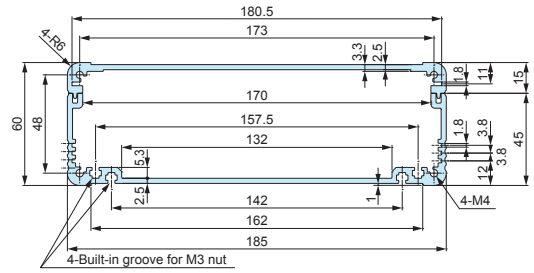
Cross-section view of top & bottom covers

■ DXF/DWG/PDF drawings available on our website.

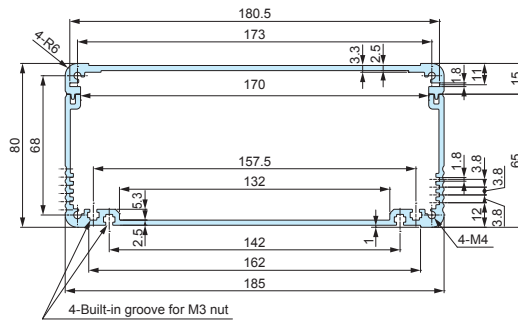
EXPS 199-56-□
EXPFS • EXWFS 195-57-□
EXS 187-44-□



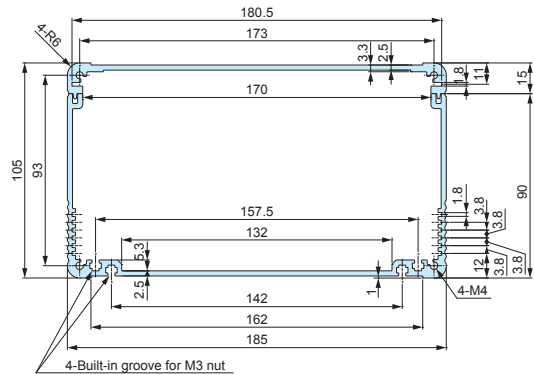
EXPS 199-74-□
EXPFS • EXWFS 195-75-□
EXS 187-62-□



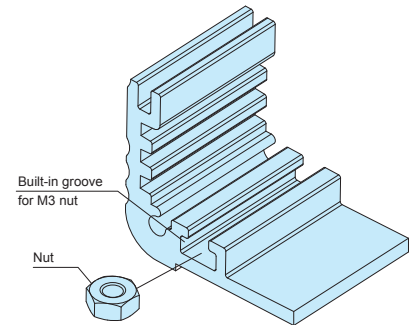
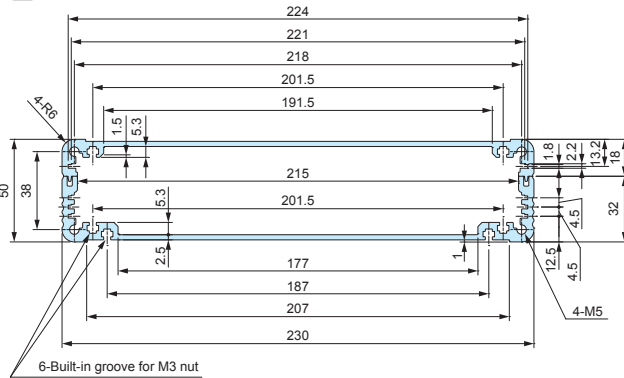
EXPS 199-94-□
EXPFS • EXWFS 195-95-□
EXS 187-82-□



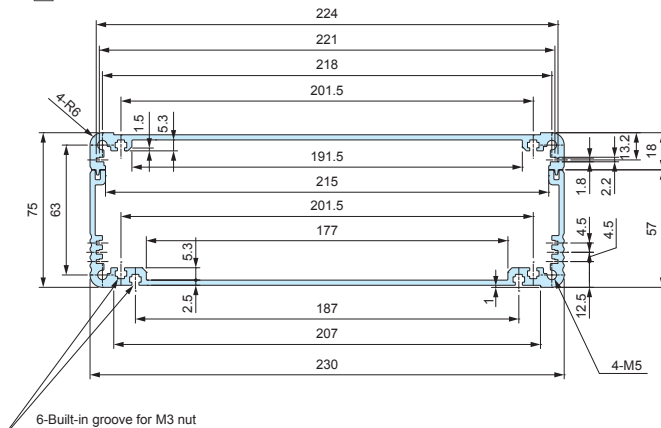
EXPS 199-119-□
EXPFS • EXWFS 195-120-□
EXS 187-107-□



EXPS 244-64-□
EXPFS • EXWFS 240-65-□
EXS 232-52-□



EXPS 244-89-□
EXPFS • EXWFS 240-90-□
EXS 232-77-□



■ Optional M3 nut is available.
Sliding nut can be used on EXPS • EXPFS • EXWS
• EXWFS • EXS models with width 140mm or larger
bottom covers and with width 230mm and 285mm
top covers.
See page EF-36 • MT-3N for MT-3N optional M3 nut.

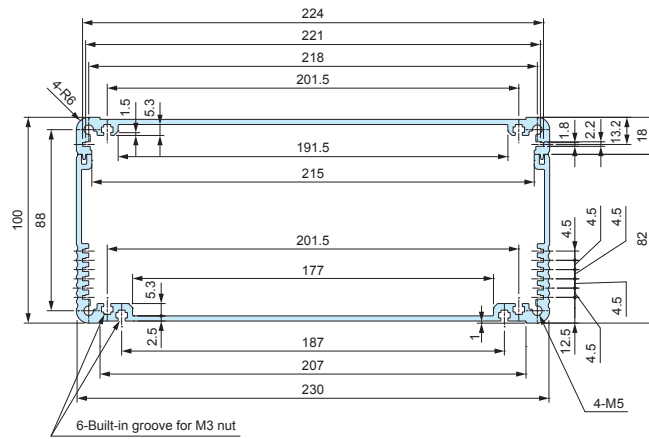
Cross-section view of top & bottom covers

■ DXF/DWG/PDF drawings available on our website.

EXPS 244-114-□

EXPFS • EXWFS 240-115-□

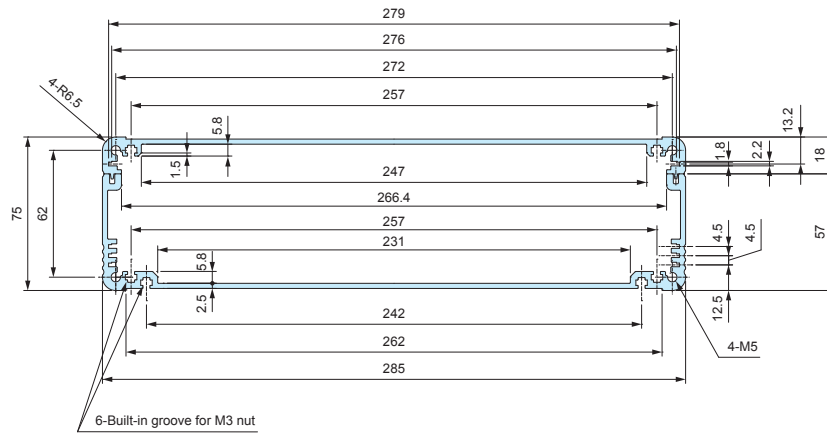
EXS 232-102-□



EXPS 300-90-□

EXWFS 298-93-□

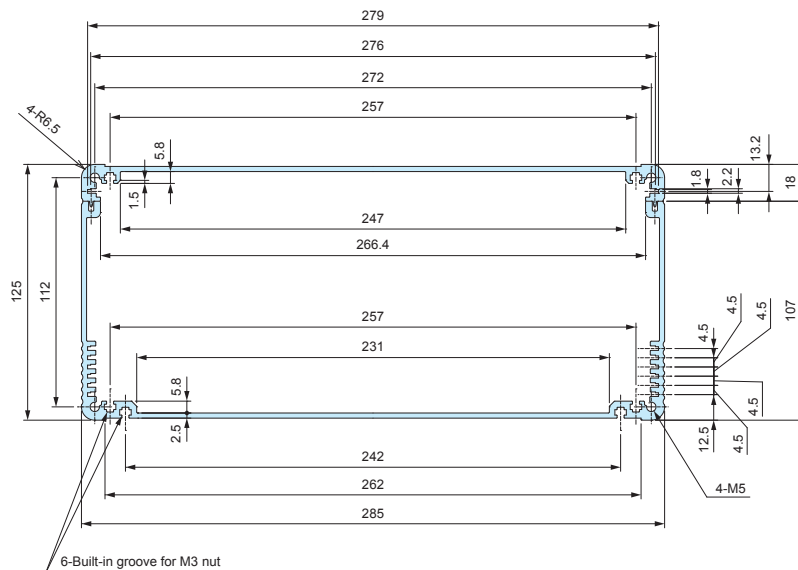
EXS 288-78-□



EXPS 300-140-□

EXWFS 298-143-□

EXS 288-128-□

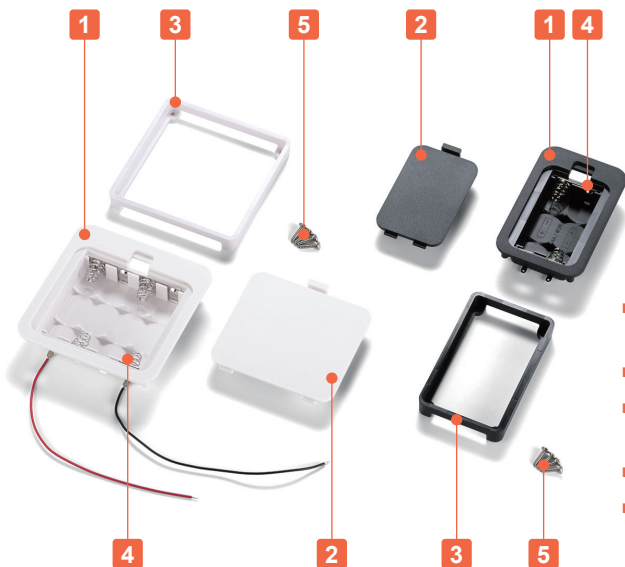




Technical Data

Operating temperature: -10°C ~ +60°C

Mount Example



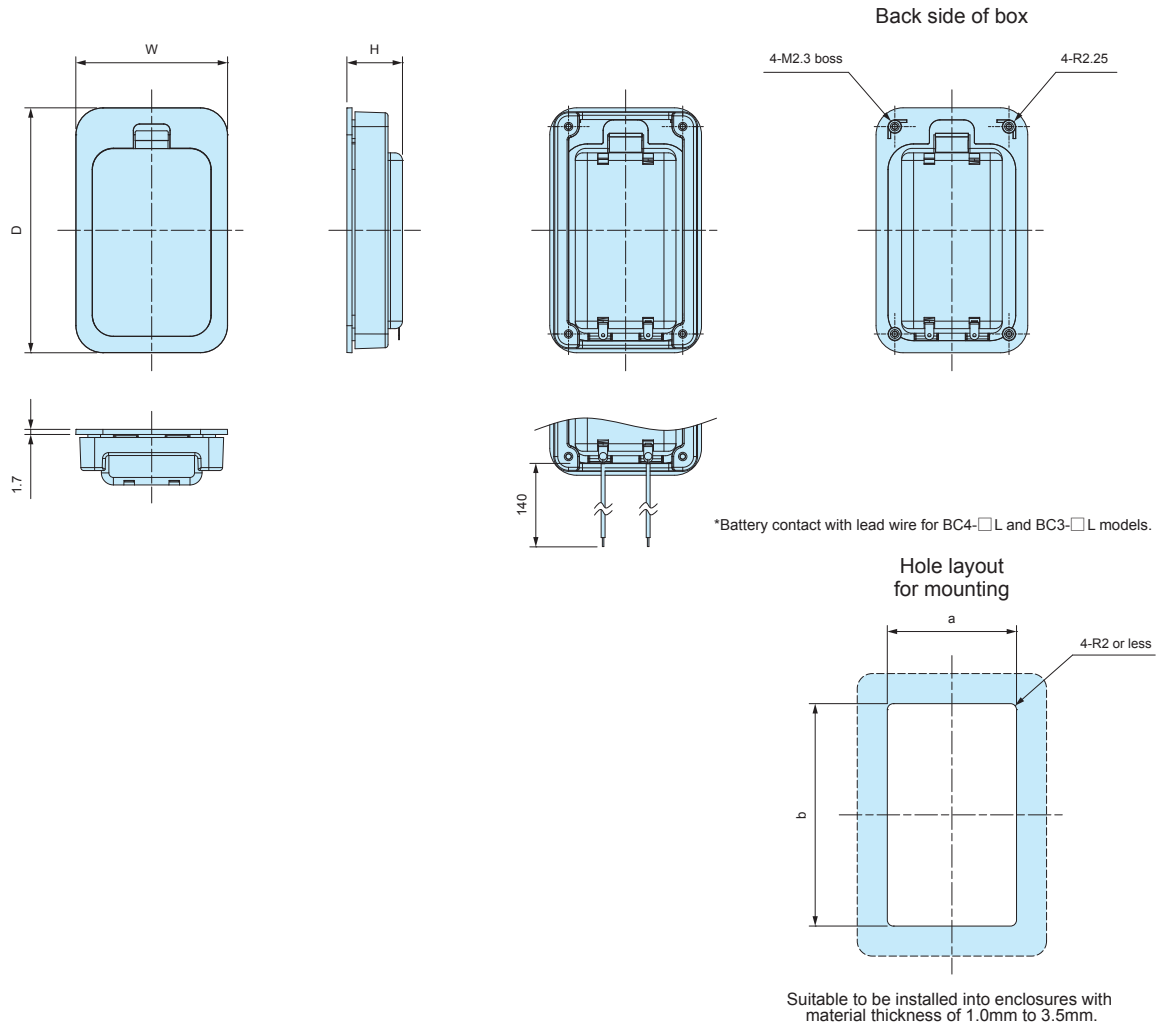
- Suitable to be installed into enclosures with material thickness of 1.0mm to 3.5mm.
- Cover can be opened/closed without any tool for easy battery replacement.
- 5 different battery layouts are available as AA x 2, AA x 3, AA x 4, AAA x 2 and AAA x 4. Each layout comes in 2 models: with lead-wire, and without lead-wire.
- ⊕⊖ 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

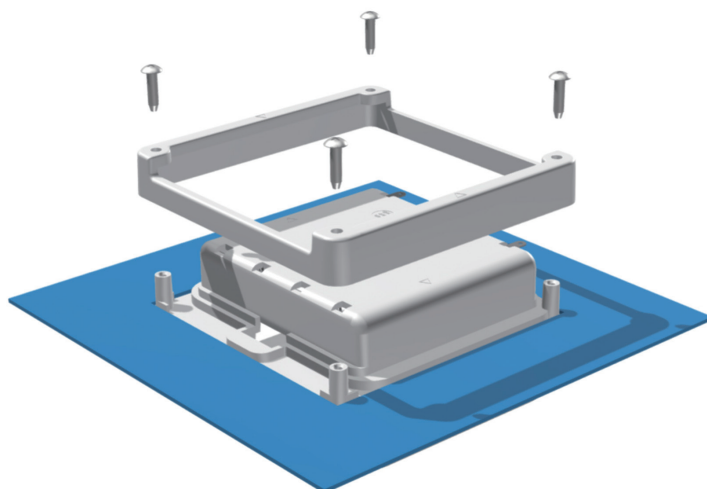
Product no. / Details

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

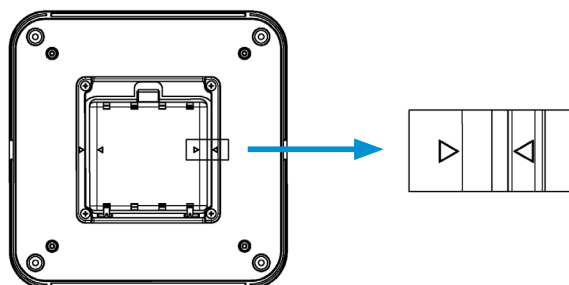
*Alkaline or manganese batteries

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.



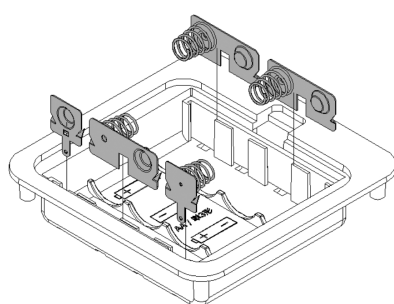
- For BC3-4□ models, ▷ markings are shown on the frame. Install by matching the markings.



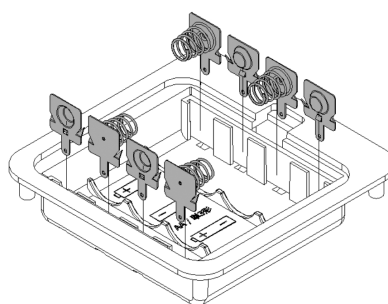
Parallel circuit conversion on BC series battery box

- 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.

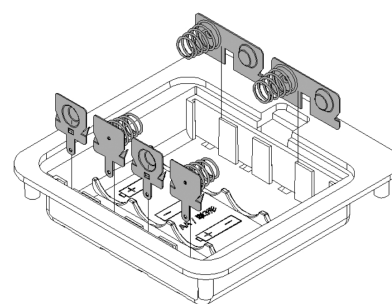
Conversion Example



Series Circuit (Standard)

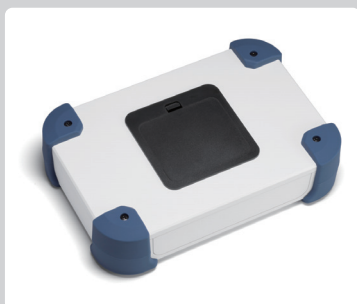


Parallel Circuit (4 batteries)



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