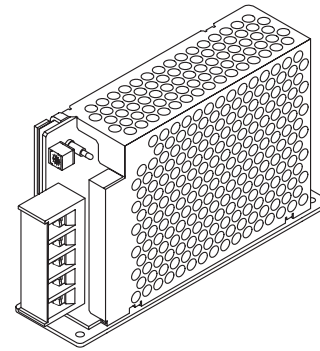


PB · PMA Series Attachment

BASE Attachment

Plate model	Applicable models
F-PBA10-1	PBA10F
F-PBA15-1	PBA15F, PBW15F
F-PBA30-1	PBA30F, PBW30F, PMA15F
F-PBA50-1	PBA50F, PBW50F, PMA30F
F-PBA75-1	PBA75F, PMA60F
F-PBA100-1	PBA100F
F-PBA150-1	PBA150F, PMA100F

Example



< TOP VIEW > (Unit : mm) (Tolerance : ±1)

F-PBA10-1 Size * Material : SECC * Thickness : 2.0 * Weight : 60g max	F-PBA15-1 Size * Material : SECC * Thickness : 2.0 * Weight : 70g max
* M3 Flat screw is requested when mounting. Please check the instruction manual for the size of screw.	
Mounting hole size FRONT←	Mounting hole size FRONT←
F-PBA30-1 Size * Material : SECC * Thickness : 2.0 * Weight : 85g max	F-PBA50-1 Size * Material : SECC * Thickness : 2.0 * Weight : 95g max
* M3 Flat screw is requested when mounting. Please check the instruction manual for the size of screw.	
Mounting hole size FRONT←	Mounting hole size FRONT←

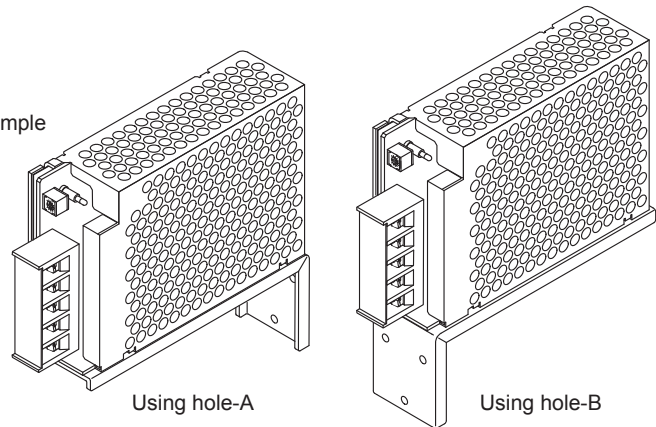
< TOP VIEW > (Unit : mm) (Tolerance : ±1)

F-PBA75-1 Size ★ Material : SECC ★ Thickness : 2.0 ★ Weight : 110g max	F-PBA100-1 Size ★ Material : SECC ★ Thickness : 2.0 ★ Weight : 110g max
★ M3 Flat screw is requested when mounting. Please check the instruction manual for the size of screw.	
Mounting hole size FRONT ←	Mounting hole size FRONT ←
F-PBA150-1 Size ★ Material : SECC ★ Thickness : 2.0 ★ Weight : 130g max	
★ M3 Flat screw is requested when mounting. Please check the instruction manual for the size of screw.	
Mounting hole size FRONT ←	

FRONT • REVERSE Attachment

Plate model	Applicable models
F-PBA10-2	PBA10F
F-PBA15-2	PBA15F, PBW15F
F-PBA30-2	PBA30F, PBW30F, PMA15F
F-PBA50-2	PBA50F, PBW50F, PMA30F
F-PBA75-2	PBA75F, PMA60F
F-PBA100-2	PBA100F
F-PBA150-2	PBA150F, PMA100F

Example



Using hole-A

Using hole-B

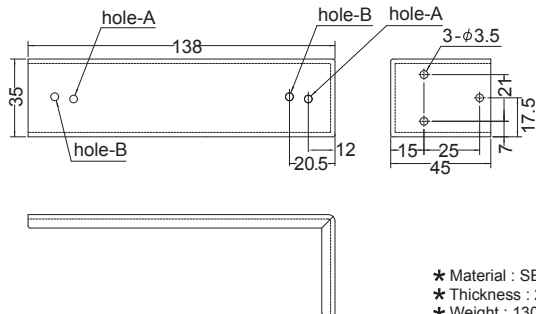
< TOP VIEW > (Unit : mm) (Tolerance : ±1)

F-PBA10-2		F-PBA15-2	
Size	★ Material : SECC ★ Thickness : 1.6 ★ Weight : 60g max	Size	★ Material : SECC ★ Thickness : 1.6 ★ Weight : 70g max
★ M3 screw is requested when mounting. Please check the instruction manual for the size of screw.			
F-PBA30-2		F-PBA50-2	
Size	★ Material : SECC ★ Thickness : 1.6 ★ Weight : 80g max	Size	★ Material : SECC ★ Thickness : 2.0 ★ Weight : 120g max
★ M3 screw is requested when mounting. Please check the instruction manual for the size of screw.			

< TOP VIEW > (Unit : mm) (Tolerance : ±1)

F-PBA75-2

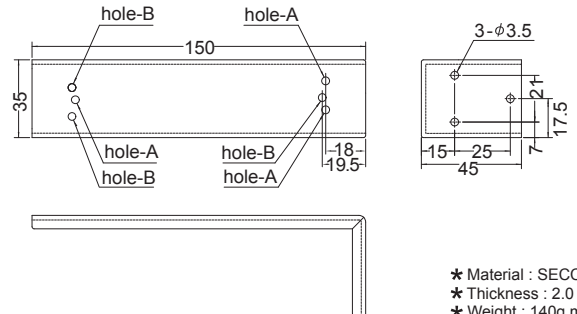
Size



- ★ Material : SECC
- ★ Thickness : 2.0
- ★ Weight : 130g max

F-PBA100-2

Size

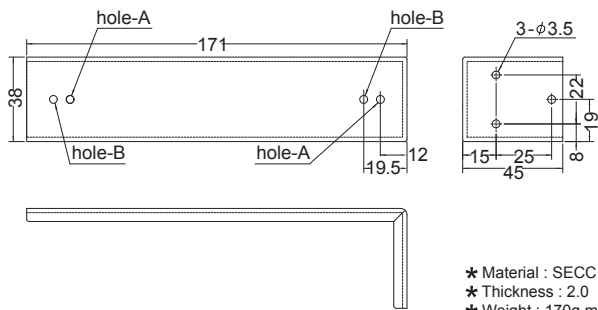


- ★ Material : SECC
- ★ Thickness : 2.0
- ★ Weight : 140g max

★ M3 screw is requested when mounting.
Please check the instruction manual for the size of screw.

F-PBA150-2

Size



- ★ Material : SECC
- ★ Thickness : 2.0
- ★ Weight : 170g max

★ M3 screw is requested when mounting.
Please check the instruction manual for the size of screw.

DIN rail Attachment Plate(PB Series)

APPLICABLE TO MODEL

DIN rail width : 35mm

Plate model	Model	screws for installation	
		Type	Qty
FD-PBA10	PBA10F	M3	2pcs
FD-PBA15	PBA15F, PBW15F		
FD-PBA30	PBA30F, PBW30F		
FD-PBA50	PBA50F, PBW50F, PBA75F		
FD-PBA100	PBA100F	M3	3pcs
	PBA150F	M3	2pcs
FD-PBA300	PBA300F	M4	2pcs

FD-PBA10, FD-PBA15, FD-PBA30 EXTERNAL VIEW

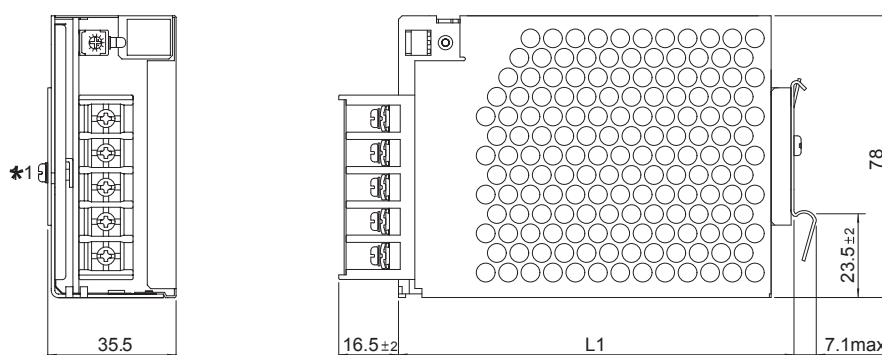


Plate model	Model	L1
FD-PBA10	PBA10F	75.0±2
FD-PBA15	PBA15F, PBW15F	92.0±2
FD-PBA30	PBA30F, PBW30F	110.0±2

- * Material : SECC
- * Thickness : 1.0
- * Tolerance : ±1
- * 1 Screws for installation (attached to Plate)
- * Weight : FD-PBA10 45g max
FD-PBA15 55g max
FD-PBA30 60g max

FD-PBA50, FD-PBA100
EXTERNAL VIEW

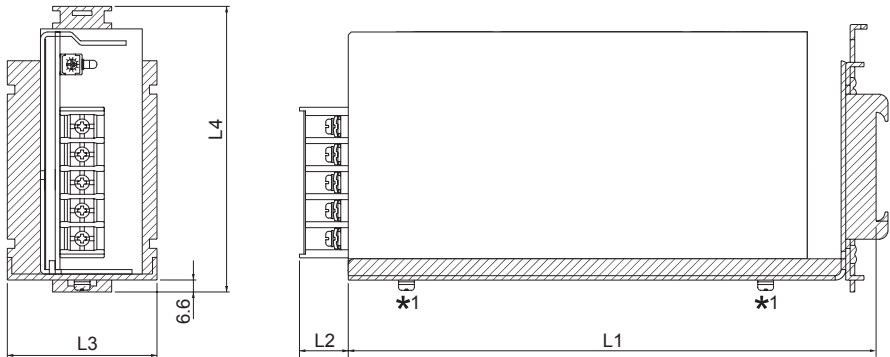


Plate model	Model	L1	L2	L3	L4	★ Material : SECC ★ Thickness : 1.6 ★ Tolerance : ±1 ★ 1 Screws for installation (attached to Plate) ★ Weight : FD-PBA50 220g max Weight : FD-PBA100 260g max
FD-PBA50	PBA50F	135	16.5±2	41	102.5	
	PBA75F	150				
FD-PBA100	PBA100F	162	13.5±2	42.5	112	
	PBA150F	183				

FD-PBA300
EXTERNAL VIEW

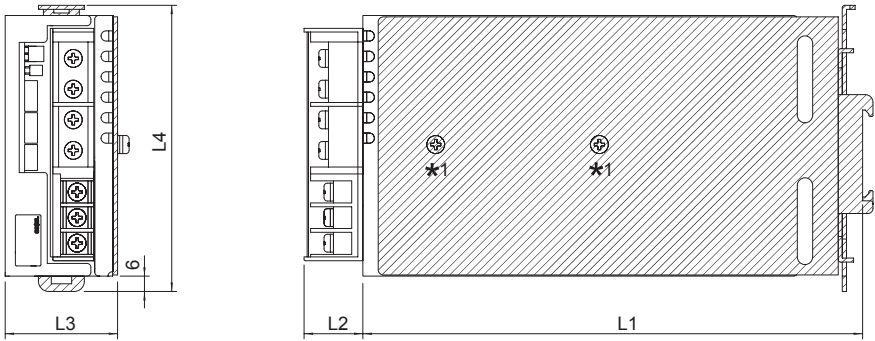


Plate model	Model	L1	L2	L3	L4	* Material : SPHC * Thickness : 2.0 * Tolerance : ± 1 * 1 Screws for installation (attached to Plate) * Weight : 500g max
FD-PBA300	PBA300F	195.5	25max	44	112	

Harness to use the function is prepared in PB series.

PB Series

Mating harness

Model	Harness model #	Contents
PBA10F, PBA15F, PBW15F, PBA30F, PBW30F, PBA50F, PBW50F, PBA75F, PBA100F, PBA150F ★1	H-IN-1 or H-IN-8	Input harness when I/O interface is connector type (option : -J)
PBA10F, PBA15F, PBA30F, PBA50F	H-OU-20	Output harness when I/O interface is connector type (option : -J)
PBA75F, PBA100F, PBA150F ★1	H-OU-21	Output harness when I/O interface is connector type (option : -J)
PBW15F, PBW30F, PBW50F	H-OU-27	Output harness when I/O interface is connector type (option : -J)
PBA50F, PBW50F, PBA75F, PBA100F, PBA150F	H-RC-1	Harness for using option : -R
PBA100F, PBA150F ★2	H-SN-1	Harness for using option : -K
PBA10F, PBA15F, PBW15F, PBA30F, PBW30F, PBA50F, PBW50F, PBA75F, PBA100F, PBA150F	H-SN-18	Harness for using option : -V
PBA300F	H-PA-3	Harness for parallel operation
PBA600F	H-SN-20	Harness for using all functions of CN1 and CN2
PBA1000F	H-SN-21	Harness for using all functions except remote sensing of CN2
PBA1500F	H-SN-22	Harness for using all functions of CN3
PBA1500T	H-SN-24	Harness for using example remote ON/OFF circuit (C)

★1 Available for 12V, 15V, 24V, 36V and 48V output model in PBA100F / 150F.

★2 Available for 3.3V and 5V output model in PBA100F / 150F.

●Model number

H-IN-1

Housing : 10-63-3044 (Molex)
Pin : 08-70-1030 or 08-70-1031 (Molex)
Weight : 25g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1015	20	green	500
2	UL1015	20	black	500
3				
4	UL1015	20	white	500

●Model number

H-IN-8

Housing : 10-63-3044 (Molex)
Pin : 08-70-1030 or 08-70-1031 (Molex)
Weight : 25g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1015	20	green/yellow	500
2	UL1015	20	black	500
3				
4	UL1015	20	white	500

●Model number

H-OU-20

Housing : 09-50-1043 (Molex)
Pin : 08-70-1030 or 08-70-1031 (Molex)
Weight : 40g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1015	18	red	500
2	UL1015	18	red	500
3	UL1015	18	black	500
4	UL1015	18	black	500

●Model number

H-OU-21

Housing : 09-50-1063 (Molex)
Pin : 08-70-1030 or 08-70-1031 (Molex)
Weight : 60g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1015	18	red	500
2	UL1015	18	red	500
3	UL1015	18	red	500
4	UL1015	18	black	500
5	UL1015	18	black	500
6	UL1015	18	black	500

●Model number

H-OU-27

Housing : 09-50-1043 (Molex)
Pin : 08-70-1030 or 08-70-1031 (Molex)
Weight : 40g max

●Type

●Wire

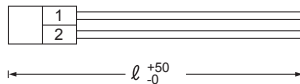
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1015	18	red	500
2	UL1015	18	black	500
3	UL1015	18	black	500
4	UL1015	18	purple	500

●Model number

H-RC-1

Housing : XHP-2 (J.S.T.)
Pin : SXH-001T-P0.6 (J.S.T.)
Weight : 7g max

●Type



●Wire

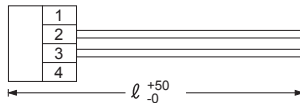
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1007	22	orange	500
2	UL1007	22	blue	500

●Model number

H-SN-1

Housing : XHP-4 (J.S.T.)
Pin : SXH-001T-P0.6 (J.S.T.)
Weight : 3g max

●Type



●Wire

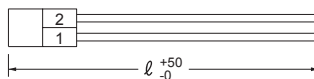
Pin #	Wire	AWG	Color	Length ℓ (mm)
1				
2	UL1061	28	black	500
3	UL1061	28	red	500
4				

●Model number

H-SN-18

Housing : PHR-2 (J.S.T.)
Pin : SPH-002T-P0.5S (J.S.T.)
Weight : 4g max

●Type



●Wire

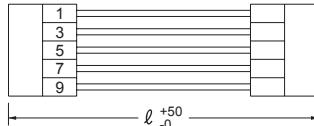
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1007	26	yellow	500
2	UL1007	26	orange	500

●Model number

H-PA-3

Housing : PHDR-10VS(J.S.T)
Pin : SPHD-002T-P0.5(J.S.T)
Weight : 5g max

●Type



●Wire

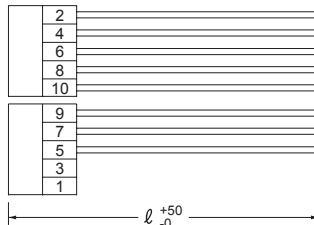
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	UL1061	28	red	270
3	-	-	-	-
4	UL1061	28	black	270
5	UL1061	28	yellow	270
6	UL1061	28	green	270
7	UL1061	28	blue	270
8	-	-	-	-
9	UL1061	28	orange	270
10	UL1061	28	purple	270

●Model number

H-SN-20

Housing : PHDR-10VS(J.S.T)
Pin : SPHD-002T-P0.5(J.S.T)
Weight : 8g max

●Type



●Wire

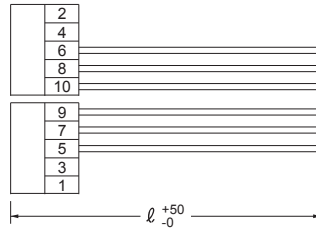
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	UL1061	28	red	500
3	-	-	-	-
4	UL1061	28	black	500
5	UL1061	28	yellow	500
6	UL1061	28	green	500
7	UL1061	28	blue	500
8	UL1061	28	black	500
9	UL1061	28	orange	500
10	UL1061	28	purple	500

●Model number

H-SN-21

Housing : PHDR-10VS(J.S.T)
Pin : SPHD-002T-P0.5(J.S.T)
Weight : 6g max

●Type



●Wire

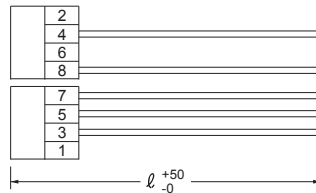
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	yellow	500
6	UL1061	28	green	500
7	UL1061	28	blue	500
8	UL1061	28	black	500
9	UL1061	28	orange	500
10	UL1061	28	purple	500

●Model number

H-SN-22

Housing : PHDR-8VS(J.S.T)
Pin : SPHD-002T-P0.5(J.S.T)
Weight : 5g max

●Type



●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	-	-	-	-
3	UL1061	28	pink	500
4	UL1061	28	brown	500
5	UL1061	28	white	500
6	-	-	-	-
7	UL1061	28	yellow	500
8	UL1061	28	gray	500

●Model number

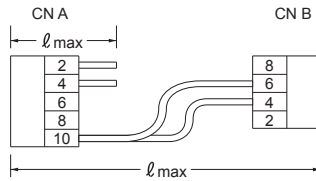
H-SN-24

CN A :
Housing : PHDR-10VS(J.S.T)
Pin : SPHD-002T-P0.5(J.S.T)

CN B :
Housing : PHDR-08VS(J.S.T)
Pin : SPHD-002T-P0.5(J.S.T)

Weight : 2g max

●Type



●Wire

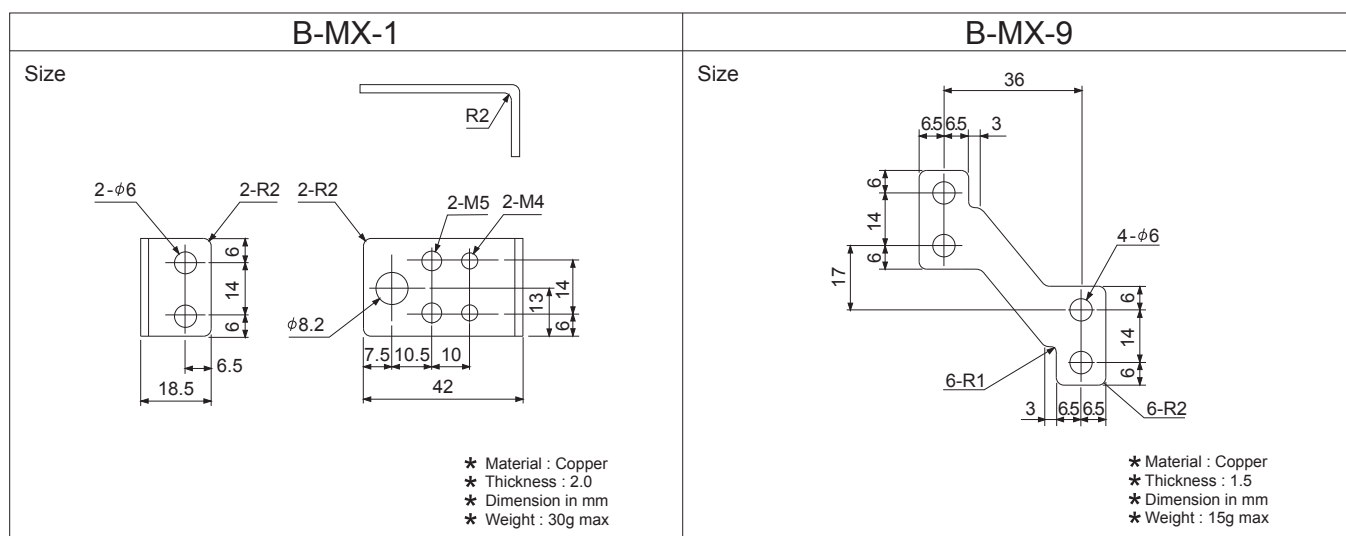
Pin #		Wire	AWG	Color	Length ℓ (mm)
CN A	1	UL1061	28	red	30
	2	UL1061	28	red	30
	3	UL1061	28	black	30
	4	UL1061	28	black	30
	5	-	-	-	-
	6	-	-	-	-
	7	-	-	-	-
	8	-	-	-	-
	9	UL1061	28	black	70
	10	UL1061	28	black	70
CN B	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	UL1061	28	black	70
	5	UL1061	28	black	70
	6	-	-	-	-
	7	-	-	-	-
	8	-	-	-	-

- * Pin #1 and #2, Pin #3 and #4 in CN A are connected by harness.
- * Pin #9 in CN A and Pin #4 in CN B are connected by harness.
- * Pin #10 in CN A and Pin #5 in CN B are connected by harness.

■ Terminal Attachment

Terminal attachment to facilitate two or more terminal connections to power supply output is prepared in PBA, MAX and ACE series.

Type	Mating Model	Contents
B-MX-1	PBA600F MAX1600F MAX1600T MAX3200T	Terminal attachment to facilitate terminal connections to power supply output
B-MX-9	MAX1600F MAX1600T MAX3200T	Terminal attachment for series operation as output modules

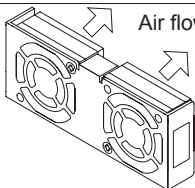
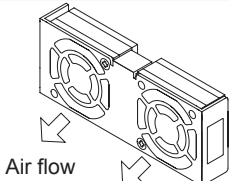
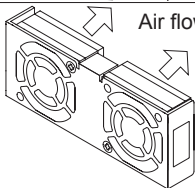
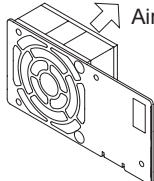
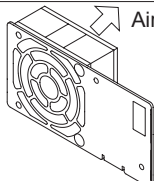
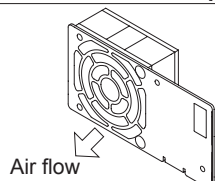
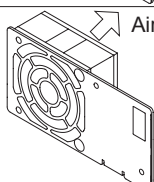


- * It is necessary to install B-MX-1 on opposite direction to avoid short-circuit between + and - terminal block.
- * Please note the direction of the installation to prevent the short-circuit between the outputs when using B-MX-1 and B-MX-9 at the same time.
- * The cover of terminal block does not be attached to B-MX-1 with installation screw and solderless terminal occasionally.

Fan unit

★ Fan unit is prepared by the option.

PB Series

Fan unit type	Matching model	External	Pin connection								
FAN-PB3 (Standard)	PBA300F <Standard>	 ★ Weight : 90g max	CONNECTOR = PHR-3 (Mfr : J. S. T) TERMINAL = SPH-002T-P0.5S (Mfr : J. S. T) <table><tr><th>Pin No.</th><th>Content</th></tr><tr><td>1</td><td>GND</td></tr><tr><td>2</td><td>FAN ALARM</td></tr><tr><td>3</td><td>POWER</td></tr></table>	Pin No.	Content	1	GND	2	FAN ALARM	3	POWER
Pin No.	Content										
1	GND										
2	FAN ALARM										
3	POWER										
FAN-PB3-F3 (Air flow reverse : -F3)	PBA300F <Modification : F3>	 ★ Weight : 90g max									
FAN-PB3-F4 (Low speed : -F4)	PBA300F <Modification : F4>	 ★ Weight : 90g max	LENGTH OF HARNESS = 40 ± 5mm								
FAN-PB6 (Standard)	PBA600F <Standard>	 ★ Weight : 120g max	CONNECTOR = XAP-03V-1 (Mfr : J. S. T) TERMINAL = SXA-001T-P0.6 (Mfr : J. S. T) <table><tr><th>Pin No.</th><th>Content</th></tr><tr><td>1</td><td>GND</td></tr><tr><td>2</td><td>FAN ALARM</td></tr><tr><td>3</td><td>POWER</td></tr></table>	Pin No.	Content	1	GND	2	FAN ALARM	3	POWER
Pin No.	Content										
1	GND										
2	FAN ALARM										
3	POWER										
FAN-PB6-F1 (Long life : -F1)	PBA600F <Modification : F1>	 ★ Weight : 150g max									
FAN-PB6-F3 (Air flow reverse : -F3)	PBA600F <Modification : F3>	 ★ Weight : 120g max									
FAN-PB6-F4 (Low speed : -F4)	PBA600F <Modification : F4>	 ★ Weight : 120g max	LENGTH OF HARNESS = 55 ± 7mm								

★ 1 Handle with care and don't add the impact such as falls or throwing to the unit.

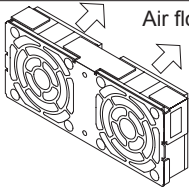
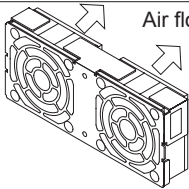
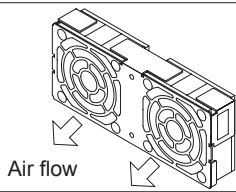
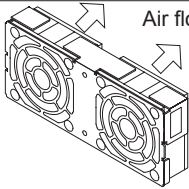
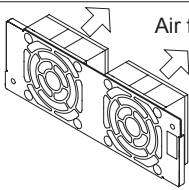
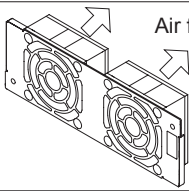
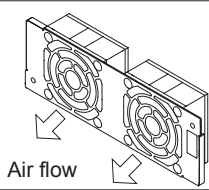
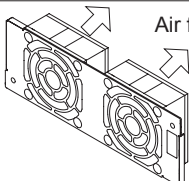
★ 2 Exchange the unit after intercepting the input power.

★ 3 When the unit is exchanged, make sure there are not loosening of the connector and shutting the harness.

Fan unit

★ Fan unit is prepared by the option.

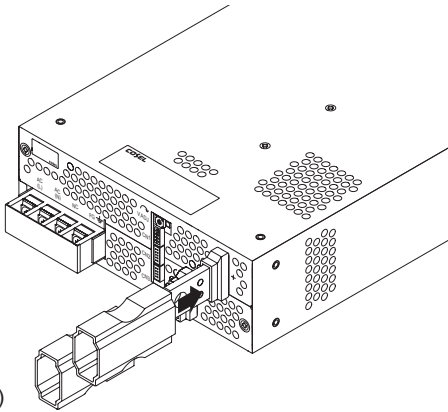
PB Series

Fan unit type	Matching model	External	Pin connection								
FAN-PB10 (Standard)	PBA1000F <Standard>	 ★Weight : 210g max	CONNECTOR = XAP-03V-1 (Mfr : J. S. T) TERMINAL = SXA-001T-P0.6 (Mfr : J. S. T) <table><tr><th>Pin No.</th><th>Content</th></tr><tr><td>1</td><td>GND</td></tr><tr><td>2</td><td>FAN ALARM</td></tr><tr><td>3</td><td>POWER</td></tr></table> LENGTH OF HARNESS = 55 ± 7mm	Pin No.	Content	1	GND	2	FAN ALARM	3	POWER
Pin No.	Content										
1	GND										
2	FAN ALARM										
3	POWER										
FAN-PB10-F1 (Long life : -F1)	PBA1000F <Modification : F1>	 ★Weight : 260g max									
FAN-PB10-F3 (Air flow reverse : -F3)	PBA1000F <Modification : F3>	 ★Weight : 210g max									
FAN-PB10-F4 (Low speed : -F4)	PBA1000F <Modification : F4>	 ★Weight : 200g max									
FAN-PB15 (Standard)	PBA1500F PBA1500T <Standard>	 ★Weight : 210g max									
FAN-PB15-F1 (Long life : -F1)	PBA1500F PBA1500T <Modification : F1>	 ★Weight : 260g max									
FAN-PB15-F3 (Air flow reverse : -F3)	PBA1500F PBA1500T <Modification : F3>	 ★Weight : 210g max									
FAN-PB15-F4 (Low speed : -F4)	PBA1500F PBA1500T <Modification : F4>	 ★Weight : 200g max									

- ★ 1 Handle with care and don't add the impact such as falls or throwing to the unit.
- ★ 2 Exchange the unit after intercepting the input power.
- ★ 3 When the unit is exchanged, make sure there are not loosening of the connector and shutting the harness.

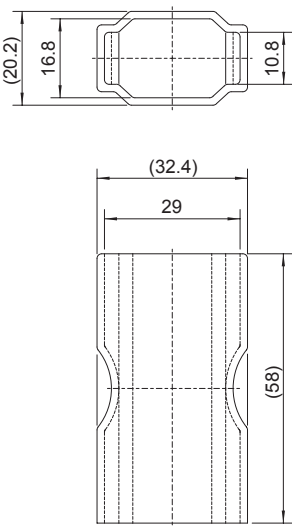
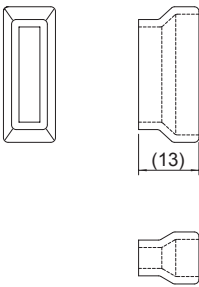
■ Insulated tube for PBA1000F, PBA1500F, PBA1500T, PJA1000F & PJA1500F
This is a tube used to insulate an output terminal.

Plate model	Applicable to model
T-PBA1500-1	PBA1000F, PBA1500F, PBA1500T, PJA1000F, PJA1500F
T-PBA1500-2	PBA1000F, PBA1500F, PBA1500T, PJA1000F, PJA1500F



Example(PBA1500F)

(Unit : mm) (Tolerance : ±1)

T-PBA1500-1	T-PBA1500-2
★ This is used when insulating the tip portion of an output terminal.  ★ Material : Silicone rubber Black ★ Weight : 15g max	★ This is used when insulating the root portion of an output terminal.  ★ Material : Silicone rubber Black ★ Weight : 2g max

★ If this product is attached, a wiring portion can't visible.
Be careful not to forget to attach the screw or the bolt for electric wire connection.