COŞE	L AC-DC P	ower S	Supplies Enclosed type	Ordering information						
	P	BA	10F	PB A 10 F -						
				1 2	3	4	<u>(</u>) (8)			
RoHS	κ TV Product C Ε C C C C C C C C C			Hig Line Hig Line Hig Line Hig	Recommended EM// NAC-06-472	: NAP series NAM series mended	 ①Series name ②Single output ③Output wattage ④Universal input ⑤Output voltage ⑥Optional *5 C:with Coating G: Low leakage current E: Low leakage current E: Low leakage current C:with Class A T: Vertical terminal block J: Connector type N: with Cover (UL508 is acquired) M: with DIN rail and Cove V: Output voltage settin potentiometer external Iy 			
					Cover is op	otional				
MODEL			PBA10F-5	PBA10F-12		PBA10F-	24			
	UT WATTAGE[W]		10	10.8		12				
			5V 2A	12V 0.9A		24V 0.5A				
SPECIF	ICATIONS									
	MODEL		PBA10F-5	PBA10F-12		PBA10F-2				
	VOLTAGE[V]		AC85 - 264 1 ϕ or DC110 - 370 (AC5	2.1 Input voltage *3)						
	CURRENT[A]		0.30typ (lo=100%) 0.20typ (lo=100%)							
	FREQUENCY[Hz]		50/60 (47 - 440) or DC							
	ACIN 100V			76typ		77typ				
	EFFICIENCY[%]	ACIN 200V	74typ	76typ		77typ				
	INRUSH CURRENT[A]	ACIN 100V								
		ACIN 200V								
	LEAKAGE CURREN	T[mA]	0.15/0.30max (ACIN 100V/240V 60Hz	a, Io=100%, According to 12	IEC60950-1,D	ENAN) 24				
	VOLTAGE[V] CURRENT[A]		2	0.9		0.5				
	LINE REGULATION	mV1 *6		48max		96max				
	LOAD REGULATION			100max		150max				
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	120max		120max				
	кіггсе[іііvр-р]	-10 - 0℃ *1		160max		160max				
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1		150max		150max				
OUTPUT		-10 - 0°C *1		180max		180max				
	TEMPERATURE REGULATION[mV]	0 to +50℃ -10 to +50℃	50max	120max		240max				
	DRIFT[mV]	-10 10 +30 (*2		150max 48max		290max 96max				
	START-UP TIME[ms]		200typ(ACIN 100V, Io=100%) *Start-up time		minute of applying		from turning off the input voltag			
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)	,,	117 0	1 0	0			
	OUTPUT VOLTAGE ADJUSTMEN	T RANGE[V]	4.50 - 5.50	10.0 - 13.2		19.2 - 27.	0			
	OUTPUT VOLTAGE SET	TING[V]	5.00 - 5.15	12.00 - 12.48		24.00 - 24	1.96			
POTECTION			Works over 105% of rated current and	,						
ROTECTION	OVERVOLTAGE PROTEC		5.75 - 7.00 15.0 - 18.0 30.0 - 37.0							
OTHERS	OPERATING INDICA REMOTE ON/OFF	TION	LED (Green)							
	INPUT-OUTPUT		None AC3,000V 1minute, Cutoff current = 1			nnerature)				
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 1							
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25r		· ·					
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +71°C (Required Derating), 20 -				nax			
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%RH (Non conde	ensing) 9,000m (30,000f	eet) max					
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes p		ong X, Y and Z	Zaxis				
	IMPACT		196.1m/s ² (20G), 11ms, once each X,							
	AGENCY APPROVALS (At only	y AC input)								
SAFETY AND			Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B							
NOISE	CONDUCTED NOISE		· · ·			22-B				
	CONDUCTED NOISE HARMONIC ATTENU	JATOR	Complies with IEC61000-3-2 (Not buil	t-in to active filter +4) *	7		and with access (20)			
OISE	CONDUCTED NOISE	JATOR	· · ·	t-in to active filter +4) *	7		ax (with cover : 180g max)			

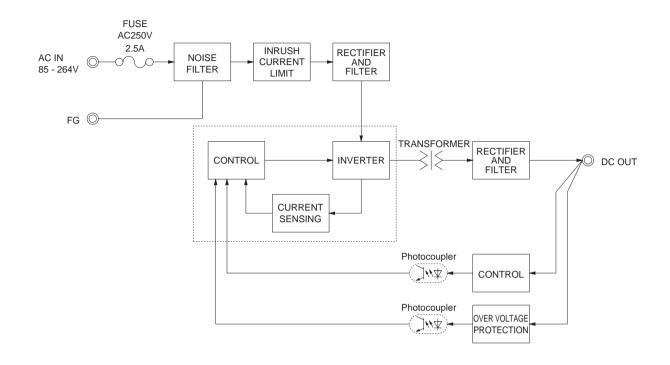
RM403Urd 07 200H2 oscilloscope of Ripple-Noise meter(equivalent to KEISOKO-GIKEN :RM101).
 2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 3 Derating is required.
 *4 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.

*6 Please contact us about dynamic load and input response.
 *7 Please contact us about dynamic load and input response.
 *7 Please contact us about class C.
 * Parallel operation with other model is not possible.
 * Derating is required when operated with cover.
 * A sound may occur from power supply at peak loading.

PBA/F

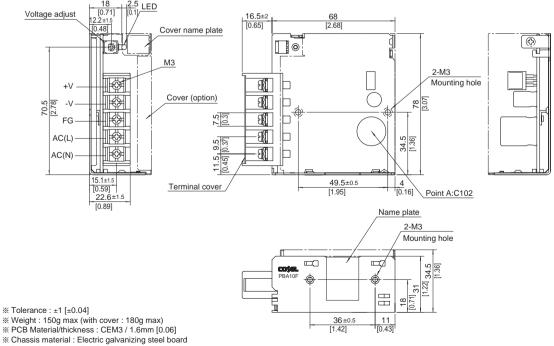
PBA10F | CO\$EL

Block diagram



External view

* External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



Chassis fracting : Electric galvanizing steel board
 Dimensions in mm, []= inches
 Mounting torque : 0.6N • m(6.3kgf • cm)max
 Screw tightening torque : M3 0.8N • m(8.5kgf • cm)max
 Please connect safety ground to the unit in 2-M3 holes.

CO\$E			Supplies En 15F	closed typ	e Ord Pl	ering information of the second secon	15 3	F	•			
c AL us RoHS	KARANA CE					High volt Low lea *The I to con	mmended EMI/EMC Fi C-06-472	Construction C	putput wattage al input voltage I **5 Coating leakage current leakage current EMI class A cal terminal block hector type			
						1						
MODEL			PBA15F-3R3	PBA15F-5	PBA15F-9	PBA15F-12	PBA15F-15	PBA15F-24	PBA15F-48			
DC OUTPU	UT WATTAGE[W]		9.9 3.3V 3A	15 5V 3A	15.3 9V 1.7A	15.6 12V 1.3A	15 15V 1A	16.8 24V 0.7A	16.8 48V 0.35A			
			J.3V 3A	JV JA	3V 1./A	12V 1.3A	I I JV TA	24V U./A	40V U.35A			
SPECIF	ICATIONS											
	MODEL		PBA15F-3R3	PBA15F-5	PBA15F-9	PBA15F-12	PBA15F-15	PBA15F-24	PBA15F-48			
	VOLTAGE[V]	_	AC85 - 264 1φ	or DC110 - 370) (AC50 or DC70) Please refer to t	he instruction ma	anual 2.1 Input v	oltage *3)			
	CURRENT[A]	ACIN 100V	0.30typ (lo=100%)	0.4typ (lo=1009	%)							
	CONNENTIAL	ACIN 200V	0.15typ (lo=100%)	0.2typ (lo=100	%)							
NPUT I	FREQUENCY[Hz]		50/60 (47 - 440) or DC			1					
	EFFICIENCY[%]	ACIN 100V	68typ	74typ	75typ	75typ	77typ	75typ	75typ			
		ACIN 200V	68typ	75typ	77typ	78typ	80typ	78typ	78typ			
	INRUSH CURRENT[A]	ACIN 100V										
		ACIN 200V	30typ (lo=100%									
			1			According to IE			40			
	VOLTAGE[V] CURRENT[A]		3.3	5	9	12	15	24 0.7	48			
	LINE REGULATION	mV1 *6	20max	20max	36max	48max	60max	96max	192max			
	LOAD REGULATION	-	40max	40max	100max	100max	120max	150max	240max			
		0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max			
	RIPPLE[mVp-p]	-10 - 0°C *1	140max	140max	160max	160max	160max	160max	200max			
		0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max			
UTPUT	RIPPLE NOISE[mVp-p]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max			
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	90max	120max	150max	240max	480max			
		-10 to +50℃	60max	60max	120max	150max	180max	290max	600max			
	DRIFT[mV]	*2	20max	20max	36max	48max	60max	96max	192max			
	START-UP TIME[ms]				up time is 700ms ty	yp for less than 1min	ute of applying input	again from turning	off the input voltage			
	HOLD-UP TIME[ms]		20typ (ACIN 10			40.0 40.0	40.0 40.0	40.0.07.0				
	OUTPUT VOLTAGE ADJUSTMEN			4.50 - 5.50	7.50 - 10.0	10.0 - 13.2	13.2 - 18.0	19.2 - 27.0	39.0 - 53.0			
	OUTPUT VOLTAGE SET OVERCURRENT PROT		3.30 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	48.00 - 49.92			
ROTECTION	OVERVOLTAGE PROTEC		4.00 - 5.25	% of rated curre 5.75 - 7.00	11.5 - 14.0	15.0 - 18.0	20.0 - 25.0	30.0 - 37.0	58.0 - 65.0			
IRCUIT AND	OPERATING INDICA		LED (Green)	0.10 - 1.00	11.5 - 14.0	15.0 - 10.0	20.0 - 23.0	00.0 - 07.0	00.0 - 00.0			
THERS	REMOTE ON/OFF		None									
	INPUT-OUTPUT			ute. Cutoff curre	nt = 10mA. DC5	500V 50MΩmin (A	At Room Tempera	ature)				
SOLATION	INPUT-FG					500V 50MΩmin (A						
	OUTPUT-FG					0V 50MΩmin (At						
	OPERATING TEMP.,HUMID.AND	ALTITUDE				(Non condensing)						
	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20	0 - 90%RH (Non	condensing) 9,0	000m (30,000feet)) max					
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6	m/s² (2G), 3mir	nutes period, 60r	minutes each alor	g X, Y and Z ax	s				
ŀ	IMPACT		196.1m/s ² (20G	i), 11ms, once e	ach X, Y and Z	axis						
	AGENCY APPROVALS (At only AC input)		UL60950-1, C-U	JL(CSA60950-1)	, EN60950-1, EI	N50178 Complies	with DEN-AN					
AFETY AND			UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									
	CONDUCTED NOISE		Complies with F	CC Part15 class	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B							
	CONDUCTED NOISE HARMONIC ATTENU	JATOR	Complies with I	EC61000-3-2 (N	ot built-in to acti	ve filter *4) *7						
IOISE	CONDUCTED NOISE	JATOR	Complies with I	EC61000-3-2 (N	ot built-in to acti				over : 235g max			

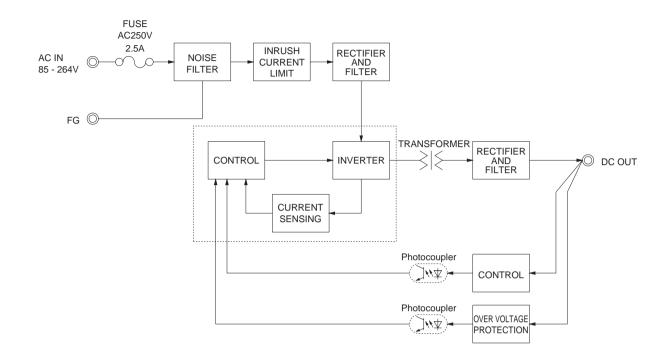
ope Ripp er(equ

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Derating is required.
 *4 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.

*5 Please contact us about safety approvals for the model with
*6 Please contact us about dynamic load and input response.
*7 Please contact us about class C.
* Parallel operation with other model is not possible.
* Derating is required when operated with cover.
* A sound may occur from power supply at peak loading.

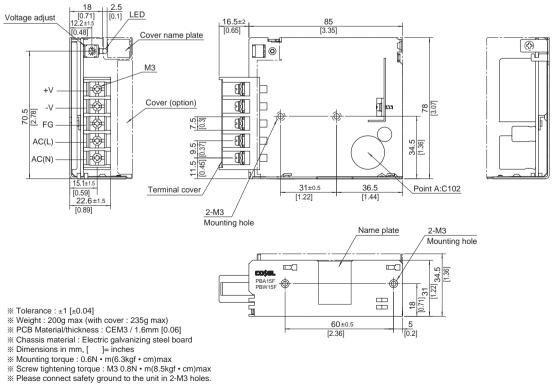
PBA/P

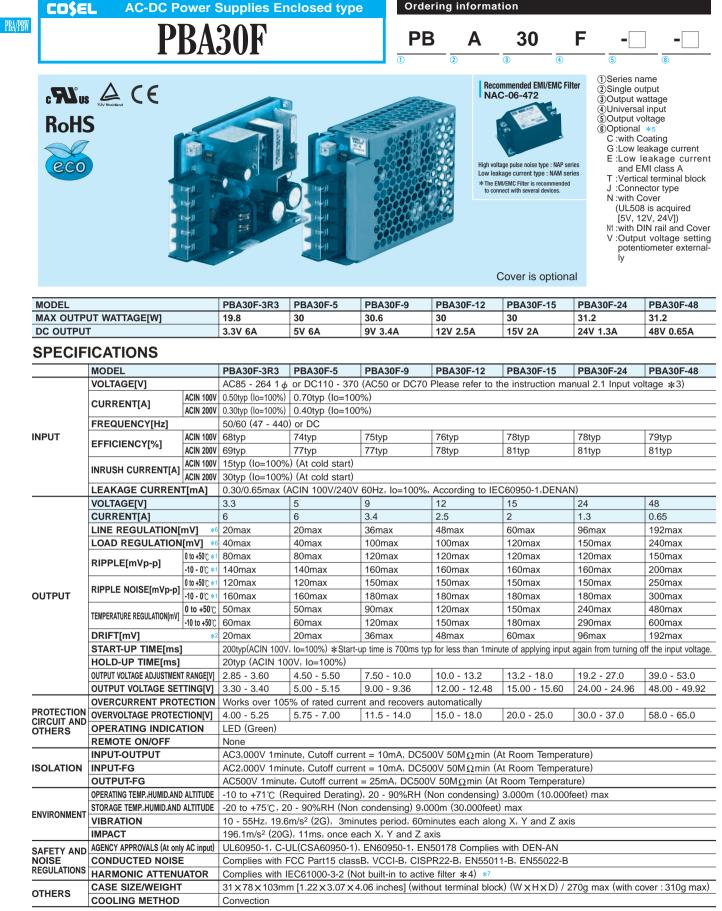
Block diagram



External view

* External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.





*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).

*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
*3 Derating is required.

*4 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.

*5 Please contact us about safety approvals for the model with option

*6 Please contact us about dynamic load and input response

*7 Please contact us about class C.

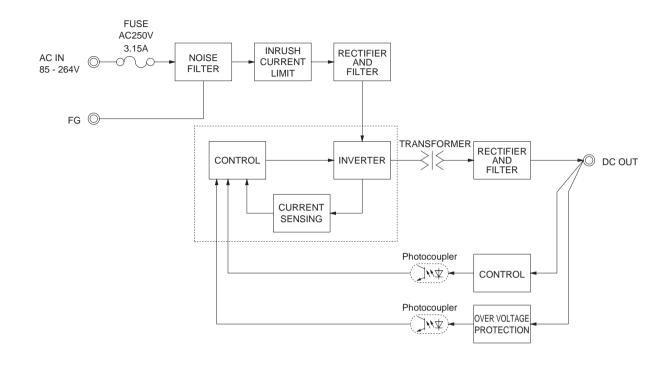
Parallel operation with other model is not possible

Derating is required when operated with cover.

A sound may occur from power supply at peak loading.

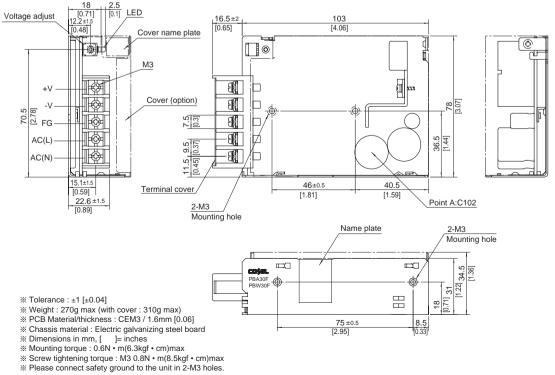
PBA30F | CO\$EL

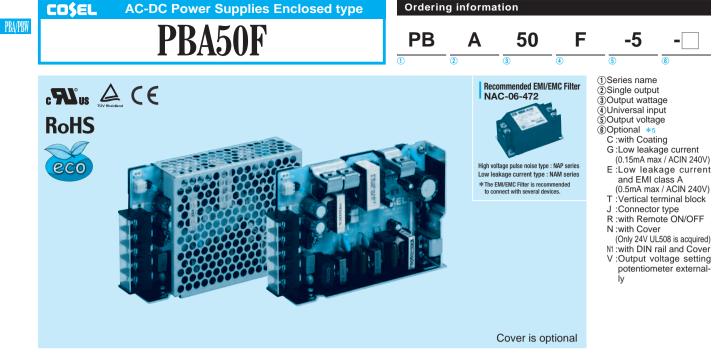
Block diagram



External view

% External size of option T.J.N.N1 and V is different from standard model and refer to 7 Option of instruction manual for details.





MODEL	PBA50F-3R3	PBA50F-5	PBA50F-9	PBA50F-12	PBA50F-15	PBA50F-24	PBA50F-36	PBA50F-48
MAX OUTPUT WATTAGE[W]	33	50	50.4	51.6	52.5	52.8	50.4	52.8
DC OUTPUT	3.3V 10A	5V 10A	9V 5.6A	12V 4.3A	15V 3.5A	24V 2.2A	36V 1.4A	48V 1.1A

SPECIFICATIONS

	MODEL		PBA50F-3R3	PBA50F-5	PBA50F-9	PBA50F-12	PBA50F-15	PBA50F-24	PBA50F-36	PBA50F-48			
	VOLTAGE[V]		AC85 - 264 1¢	or DC120 - 37	0 (AC50 or DC7	0 Please refer to	the instruction r	nanual 2.1 Input	voltage *4)				
		ACIN 100V	0.5typ 0.7typ										
	CURRENT[A]	ACIN 200V											
	FREQUENCY[Hz]		50/60 (47 - 63)										
	ACIN 100V		75typ	80typ	79typ	80typ	81typ	82typ	83typ	83typ			
NPUT	EFFICIENCY[%]	ACIN 200V	76typ	82typ	81typ	82typ	83typ	84typ	85typ	85typ			
		ACIN 100V											
	POWER FACTOR(Io=100%)	ACIN 200V	0.87tvp										
		ACIN 100V		5typ (Io=100%) (At cold start)									
	INRUSH CURRENT[A]	ACIN 200V											
	LEAKAGE CURRENT[r				60Hz, lo=100%	According to IE	C60950-1.DENA	N)					
	VOLTAGE[V]		3.3	5	9	12	15	24	36	48			
	CURRENT[A]		10	10	5.6	4.3	3.5	2.2	1.4	1.1			
	LINE REGULATION[m]	/1	20max	20max	36max	48max	60max	96max	144max	192max			
	LOAD REGULATION[m		40max	40max	100max	100max	120max	150max	240max	240max			
		0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max			
	RIPPLE[mVp-p]	-10 - 0°C *1	140max	140max	160max	160max	160max	160max	200max	200max			
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	250max			
UTPUT		-10 - 0°C *1	160max	160max	180max	180max	180max	180max	300max	300max			
OIFOI		0 to +50℃		50max	90max	120max	150max	240max	360max	480max			
	TEMPERATURE REGULATION[mV]	-10 to +50℃	60max	60max	120max	150max	180max	240max	450max	600max			
	DRIFT[mV]	*2	20max	20max	36max	48max	60max	96max	144max	192max			
	START-UP TIME[ms]	*4			Joinax	4011187	ounax	9011187	144111dX	19211183			
	HOLD-UP TIME[ms]		350typ(ACIN 100V, Io=100%) 20typ (ACIN 100V, Io=100%)										
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.63	4.00 - 5.50	7.50 - 10.0	10.0 - 13.2	13.2 - 18.0	19.2 - 27.0	28.8 - 39.6	39.0 - 53.0			
	OUTPUT VOLTAGE ADJUSTMENT		3.30 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 13.2	15.00 - 15.60	24.00 - 24.96	35.00 - 37.44	48.00 - 49.9			
	OVERCURRENT PROT						15.00 - 15.00	24.00 - 24.90	55.00 - 57.44	40.00 - 49.9			
ROTECTION			4.00 - 5.25	5.75 - 7.00	11.5 - 14.0	15.0 - 18.0	20.0 - 25.0	30.0 - 37.0	43.0 - 50.0	58.0 - 65.0			
IRCUIT AND				5.75 - 7.00	11.5 - 14.0	15.0 - 16.0	20.0 - 25.0	30.0 - 37.0	43.0 - 50.0	56.0 - 65.0			
DTHERS	REMOTE ON/OFF	Л	LED (Green)										
	INPUT-OUTPUT · RC		Optional (Required external power source)										
SOLATION	INPUT-FG	*3	AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)										
SOLATION	OUTPUT · RC-FG	*3	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Qmin (At Room Temperature)										
	OPERATING TEMP.,HUMID.AND	-											
NVIRONMENT	STORAGE TEMP.,HUMID.AND	ALITIODE	· · · · · · · · · · · · · · · · · · ·										
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis 196.1m/s ² (20G), 11ms, once each X, Y and Z axis										
		AC (mar)											
AFETY AND		AC Input)				N50178 Complie		D					
IOISE EGULATIONS	CONDUCTED NOISE					SPR22-B, EN550	лл-В, EN55022-	ъ					
LOOLAHONO	TARMONIC ATTENDA	UK		EC61000-3-2			() () () () () () () () () () () () () (1 000 1 1	0.05				
THERS	CASE SIZE/WEIGHT			m [1.22 X 3.23 X	4.72 inches] (wi	thout terminal blo	ск) (WXHXD)	280g max (wit	h cover : 325g m	ax)			
-	COOLING METHOD		Convection										

:RM101).

*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and

FG.

*4 Derating is required.

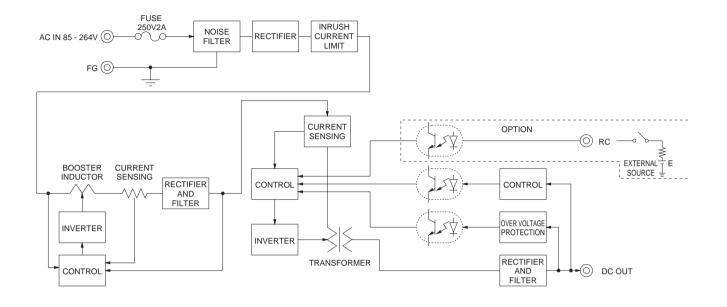
*6 Please contact us about class C.

* Parallel operation with other model is not possible.

* Derating is required when operated with cover.

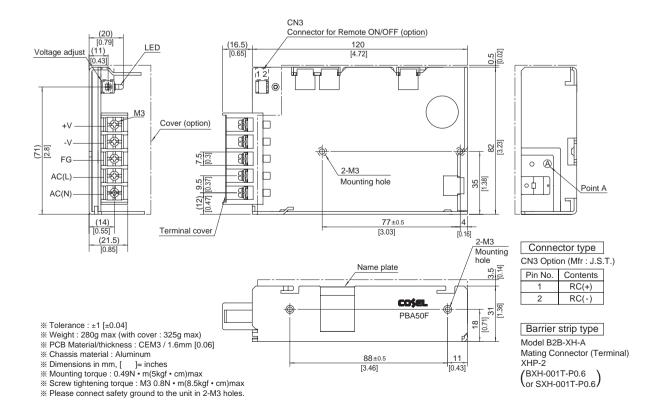
* A sound may occur from power supply at peak loading.

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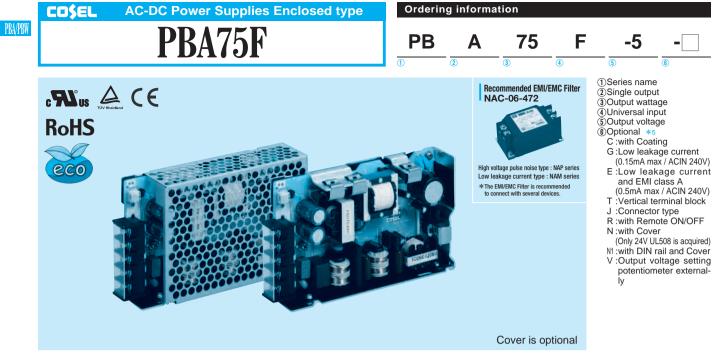


External view

* External size of option T,J,R,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



PBA/PBW-9



MODEL	PBA75F-3R3	PBA75F-5	PBA75F-9	PBA75F-12	PBA75F-15	PBA75F-24	PBA75F-36	PBA75F-48
MAX OUTPUT WATTAGE[W]	49.5	75	75.6	75.6	75	76.8	75.6	76.8
DC OUTPUT	3.3V 15A	5V 15A	9V 8.4A	12V 6.3A	15V 5A	24V 3.2A	36V 2.1A	48V 1.6A

SPECIFICATIONS

	MODEL		PBA75F-3R3	PBA75F-5	PBA75F-9	PBA75F-12	PBA75F-15	PBA75F-24	PBA75F-36	PBA75F-48			
	VOLTAGE[V]		AC85 - 264 1 ¢	or DC120 - 37	0 (AC50 or DC7	0 Please refer to	the instruction r	nanual 2.1 Input	voltage *4)				
		ACIN 100V	0.7typ 1.0typ										
	CURRENT[A]	ACIN 200V	0.4typ	0.5typ									
	FREQUENCY[Hz]												
		ACIN 100V	77typ	81typ	80typ	81typ	82typ	83typ	84typ	84typ			
NPUT	EFFICIENCY[%]	ACIN 200V	78typ	83typ	82typ	83typ	84typ	85typ	86typ	86typ			
		ACIN 100V	0.98typ										
	POWER FACTOR(Io=100%)	ACIN 200V											
		ACIN 100V	15typ (lo=100%) (At cold start)										
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%	6) (At cold start)									
	LEAKAGE CURRENT[r	nAl	0.4/0.75max (A	0.4/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)									
	VOLTAGE[V]		3.3	5	9	12	15	24	36	48			
	CURRENT[A]		15	15	8.4	6.3	5	3.2	2.1	1.6			
	LINE REGULATION[m]	/1	20max	20max	36max	48max	60max	96max	144max	192max			
	LOAD REGULATION[m		40max	40max	100max	100max	120max	150max	240max	240max			
		0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max			
OUTPUT	RIPPLE[mVp-p]	-10 - 0°C *1	140max	140max	160max	160max	160max	160max	200max	200max			
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	250max			
		-10 - 0°C *1	160max	160max	180max	180max	180max	180max	300max	300max			
		0 to +50°C		50max	90max	120max	150max	240max	360max	480max			
	TEMPERATURE REGULATION[mV]	-10 to +50°C	60max	60max	120max	150max	180max	290max	450max	600max			
	DRIFT[mV]	*2	20max	20max	36max	48max	60max	96max	144max	192max			
	START-UP TIME[ms]		350typ(ACIN 100V, Io=100%)										
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)										
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]			4.00 - 5.50	7.50 - 10.0	10.0 - 13.2	13.2 - 18.0	19.2 - 27.0	28.8 - 39.6	39.0 - 53.0			
	OUTPUT VOLTAGE SET	TING[V]	3.30 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.9			
	OVERCURRENT PROT			5% of rated curr	ent and recovers	automatically		•	1				
ROTECTION	OVERVOLTAGE PROTEC	TION[V]	4.00 - 5.25	5.75 - 7.00	11.5 - 14.0	15.0 - 18.0	20.0 - 25.0	30.0 - 37.0	43.0 - 50.0	58.0 - 65.0			
IRCUIT AND	OPERATING INDICATIO		LED (Green)		1				1				
mento	REMOTE ON/OFF		Optional (Required external power source)										
	INPUT-OUTPUT · RC	*3											
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)										
	OUTPUT · RC-FG	*3	AC500V 1 minute. Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)										
	OPERATING TEMP., HUMID.AND	ALTITUDE											
	STORAGE TEMP., HUMID.AND	ALTITUDE											
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6	Sm/s2 (2G), 3m	inutes period, 60	minutes each ald	ong X, Y and Z a	axis					
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis										
AFETY AND	AGENCY APPROVALS (At only	y AC input)				N50178 Complie	s with DEN-AN						
OISE	CONDUCTED NOISE		Complies with	FCC Part15 clas	ssB, VCCI-B, CI	SPR22-B, EN550	11-B, EN55022-	B					
EGULATIONS		FOR		EC61000-3-2									
	CASE SIZE/WEIGHT					thout terminal blo	ck) (WXHXD)	350g max (wit	h cover : 400a m	ax)			
OTHERS	COOLING METHOD		Convection] (g				
				to KEISOKU-GIK		lease contact us at							

:RM101).

*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and

FG.

*4 Derating is required.

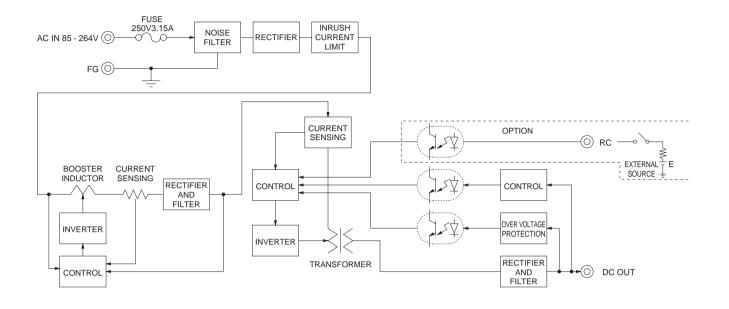
*6 Please contact us about class C.

* Parallel operation with other model is not possible.

* Derating is required when operated with cover. *

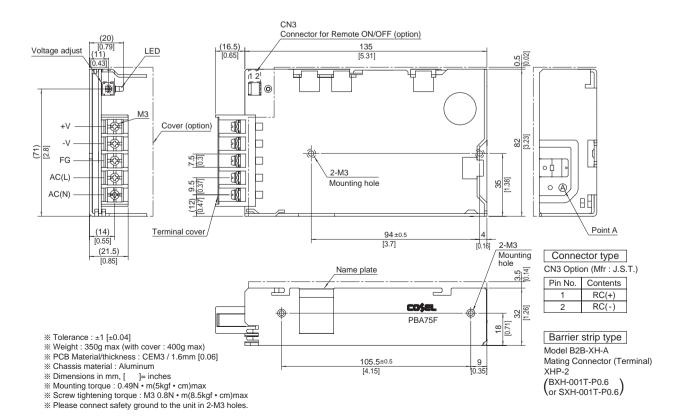
A sound may occur from power supply at peak loading.

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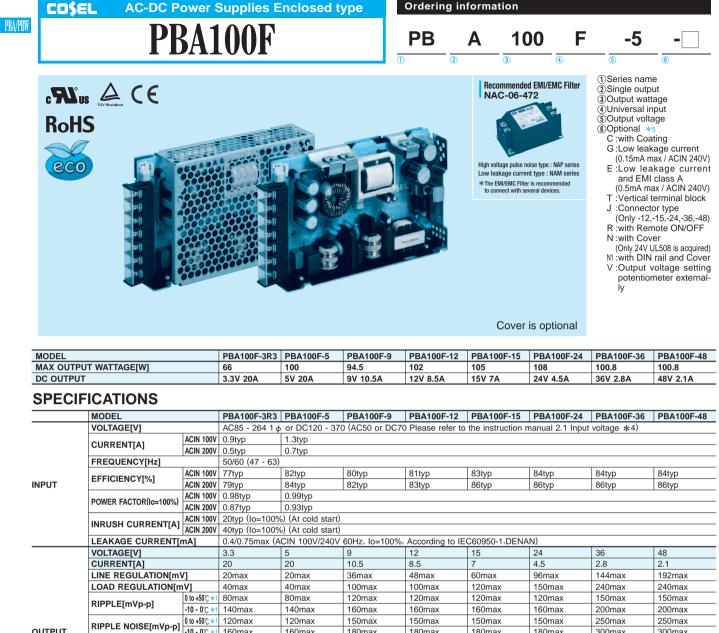


External view

※ External size of option T,J,R,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



PBA/PBW-11



	LOAD REGULATION[m	iV]	40max	40max	100max	100max	120max	150max	240max	240max			
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max			
	KIPPLE[IIIvp-p]	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max			
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	250max			
OUTPUT	RIPPLE NOISE[IIIVP-p]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	300max			
	TEMPERATURE REGULATIONImV1	0 to +50℃	50max	50max	90max	120max	150max	240max	360max	480max			
		-10 to +50℃	60max	60max	120max	150max	180max	290max	450max	600max			
	DRIFT[mV]	*2	20max	20max	36max	48max	60max	96max	144max	192max			
	START-UP TIME[ms]		350typ(ACIN 1	00V, lo=100%)									
	HOLD-UP TIME[ms]		20typ (ACIN 1		1	1			1				
	OUTPUT VOLTAGE ADJUSTMENT		2.85 - 3.63	4.00 - 5.50	7.50 - 10.0	10.0 - 13.2	13.2 - 18.0	19.2 - 27.0	28.8 - 39.6	39.0 - 53.0			
	OUTPUT VOLTAGE SET		3.20 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92			
	OVERCURRENT PROTECTION		Works over 105% of rated current and recovers automatically										
CIRCUIT AND	OVERVOLTAGE PROTECTION[V]		4.00 - 5.25	5.75 - 7.00	11.5 - 14.0	15.0 - 18.0	20.0 - 25.0	30.0 - 37.0	43.0 - 50.0	58.0 - 65.0			
	OPERATING INDICATION	NC	LED (Green)										
OTHERS	REMOTE SENSING		Optional (Only -3R3, -5 Option -K)										
	REMOTE ON/OFF		Optional (Required external power source)										
	INPUT-OUTPUT · RC	*3	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)										
ISOLATION	INPUT-FG		AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)										
	OUTPUT · RC-FG	*3	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)										
	OPERATING TEMP.,HUMID.AND	-	-10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max										
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE											
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis										
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis										
SAFETY AND		/ AC input)	UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN										
NOISE REGULATIONS	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B										
ILGOLAHONS	TIARMONIO ATTENOA	OR	Complies with IEC61000-3-2 *6 32×93×147mm [1.26×3.66×5.79 inches] (without terminal block) (W×H×D) / 440g max (with cover : 500g max)										
OTHERS	CASE SIZE/WEIGHT			im [1.26 x 3.66 x	5.79 inches] (wit	hout terminal blo	ck) (WXHXD)	/ 440g max (wit	h cover : 500g m	ax)			
-	COOLING METHOD		Convection			Convection							

*6

*

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).

Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25° C.

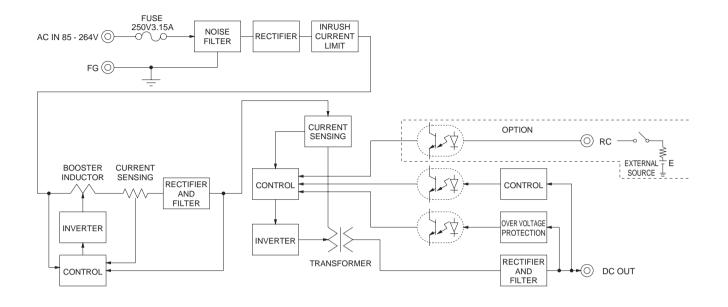
Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and *3 FG.

*4 Derating is required.

- Please contact us about class C. Parallel operation with other model is not possible. Derating is required when operated with cover.
 - A sound may occur from power supply at peak loading.

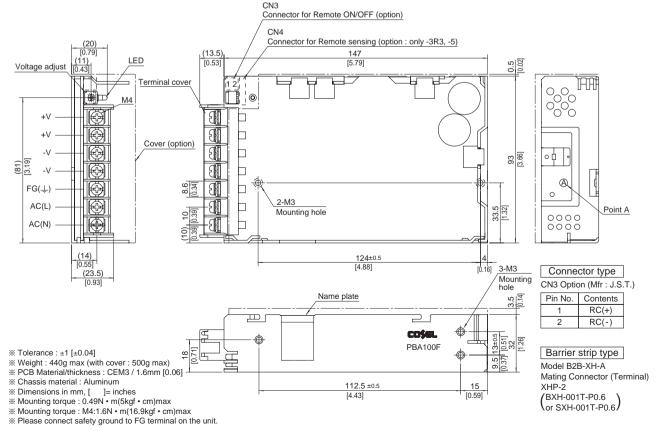
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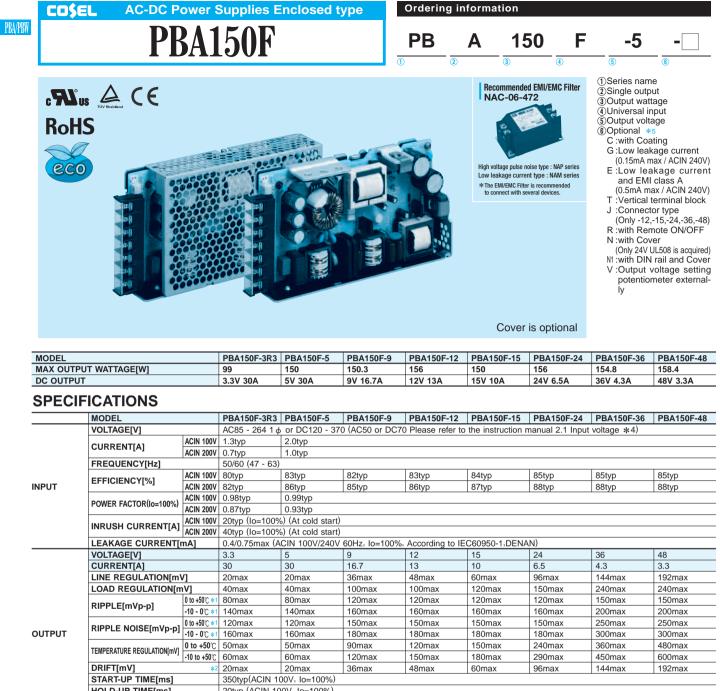
PBA/PBW



External view







	HOLD-UP TIME[ms]	20typ (ACIN 10	00V, Io=100%)										
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	2.85 - 3.63	4.00 - 5.50	7.50 - 10.0	10.0 - 13.2	13.2 - 18.0	19.2 - 27.0	28.8 - 39.6	39.0 - 53.0				
	OUTPUT VOLTAGE SETTING[V]	3.30 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92				
	OVERCURRENT PROTECTION	Works over 105	Works over 105% of rated current and recovers automatically										
PROTECTION	OVERVOLTAGE PROTECTION[V]	4.00 - 5.25	5.75 - 7.00	11.5 - 14.0	15.0 - 18.0	20.0 - 25.0	30.0 - 37.0	43.0 - 50.0	58.0 - 65.0				
CIRCUIT AND	OPERATING INDICATION	LED (Green)	LED (Green)										
OTHERS	REMOTE SENSING	Optional (Only	Optional (Only -3R3, -5 Option -K)										
	REMOTE ON/OFF	Optional (Required external power source)											
	INPUT-OUTPUT · RC *3	AC3,000V 1mir	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)										
ISOLATION	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)											
	OUTPUT · RC-FG *3	AC500V 1minu	te, Cutoff curren	t = 100mA, DC5	00V 50M Ω min (At Room Tempe	rature)						
	OPERATING TEMP., HUMID.AND ALTITUDE	-10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max											
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max											
ENVIRONMENT	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis											
	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis											
SAFETY AND	AGENCY APPROVALS (At only AC input)	UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN											
NOISE	CONDUCTED NOISE	Complies with	FCC Part15 clas	sB, VCCI-B, CIS	PR22-B, EN550	11-B, EN55022-	В						
REGULATIONS	HARMONIC ATTENUATOR	Complies with	EC61000-3-2 *	:6									
OTHERS	CASE SIZE/WEIGHT	34×93×168m	m [1.34 x 3.66 x	6.61 inches] (wit	hout terminal blo	ck) (W×H×D) /	560g max (with	n cover : 630g m	ax)				
OTTIERS	COOLING METHOD	Convection											
*1 Measured	*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN *5 Please contact us about safety approvals for the model with option.												

Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).

Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.

Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and *3 FG.

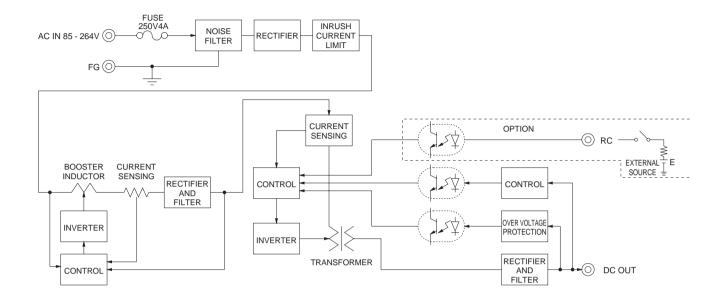
*4 Derating is required.

*6 Please contact us about class C Parallel operation with other model is not possible. *

Derating is required when operated with cover

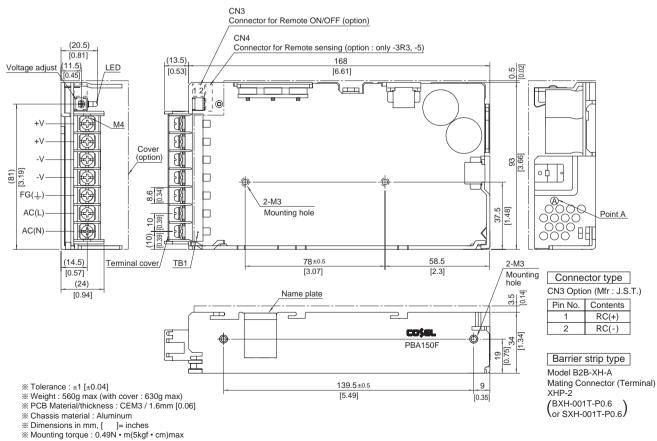
A sound may occur from power supply at peak loading.

PBA150F | COSEL



External view

* External size of option T,J,R,N,N1,V and K is different from standard model and refer to 7 Option of instruction manual for details.



Mounting torque : M4:1.6N • m(16.9kgf • cm)max
 Keep drawing current per pin below 20A for TB1.