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Example recommended EMI/EMC filter NAC-06-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

Cover is optional

- ①Series name ②Single output
- (3) Output wattage 4 Universal input
- ⑤Output voltage
- Optional *5
 C:with Coating

 - G:Low leakage current
- E:Low leakage current and EMI class A
- T : Vertical terminal block
- J :Connector type
- N :with Cover (UL508 is acquired)
- N1:with DIN rail and Cover
- V:Output voltage setting potentiometer external-

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

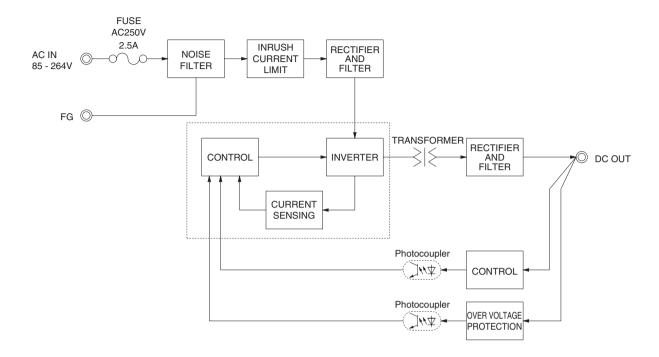
MODEL	PBA10F-5	PBA10F-12	PBA10F-24
MAX OUTPUT WATTAGE[W]	10	10.8	12
DC OUTPUT	5V 2A	12V 0.9A	24V 0.5A

	MODEL		PBA10F-5	PBA10F-12	PBA10F-24				
	VOLTAGE[V]		AC85 - 264 1 φ or DC110 - 370 (AC5	0 or DC70 Please refer to the instruction	on manual 2.1 Input voltage *3)				
	CUDDENTIAL	ACIN 100V	0.30typ (Io=100%)						
	CURRENT[A]	ACIN 200V	0.20typ (Io=100%)						
	FREQUENCY[Hz]		50/60 (47 - 440) or DC						
INPUT	EFFICIENCY[%]	ACIN 100V	74typ	76typ	77typ				
	EFFICIENCI[/6]	ACIN 200V	74typ	76typ	77typ				
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%)						
	INNOSTI CONNENT[A]	ACIN 200V	30typ (lo=100%)						
	LEAKAGE CURREN	T[mA]	0.15/0.30max (ACIN 100V/240V 60Hz	, lo=100%, According to IEC60950-1,D	ENAN)				
	VOLTAGE[V]		5	12	24				
	CURRENT[A]		2	0.9	0.5				
	LINE REGULATION[20max	48max	96max				
	LOAD REGULATION	[mV] *6	40max	100max	150max				
	RIPPLE[mVp-p]	0 to +50°C *1	80max	120max	120max				
	==[vp p]	-10 - 0℃ *1	140max	160max	160max				
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	150max	150max				
OUTPUT	······································	-10 - 0℃ *1	160max	180max	180max				
	TEMPERATURE REGULATION[mV]	0 to +50℃		120max	240max				
		-10 to +50℃	60max	150max	290max				
	DRIFT[mV]	*2	20max	48max	96max				
	START-UP TIME[ms]			is 700ms typ for less than 1minute of applying	g input again from turning off the input voltage.				
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMENT	- 11	4.50 - 5.50	10.0 - 13.2	19.2 - 27.0				
	OUTPUT VOLTAGE SET		5.00 - 5.15	12.00 - 12.48	24.00 - 24.96				
PROTECTION	OVERCURRENT PROT								
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC		5.75 - 7.00	15.0 - 18.0	30.0 - 37.0				
OTHERS	OPERATING INDICA	TION	LED (Green)						
	REMOTE ON/OFF		None						
	INPUT-OUTPUT			0mA, DC500V 50MΩmin (At Room Tel	· · · · · · · · · · · · · · · · · · ·				
ISOLATION	INPUT-FG			0mA, DC500V 50MΩmin (At Room Tel					
	OUTPUT-FG			mA, DC500V 50MΩmin (At Room Temp					
	OPERATING TEMP.,HUMID.AND			90%RH (Non condensing) 3,000m (10	0,000feet) max				
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%RH (Non conde						
	VIBRATION			eriod, 60minutes each along X, Y and 2	Z axis				
	IMPACT 196.1m/s² (20G), 11ms, once each X, Y and Z axis AGENCY APPROVALS (At only AC input) UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN								
SAFETY AND									
NOISE REGULATIONS	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B Complies with IEC61000-3-2 (Not built-in to active filter *4) *7						
	HARMONIC ATTENU) / 150 (with 100)				
OTHERS	CASE SIZE/WEIGHT			hes] (without terminal block) (WXHXD) / 150g max (with cover: 180g max)				
	COOLING METHOD		Convection						

- 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.
- *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.
- Please contact us about class C.
- Parallel operation with other model is not possible
- Derating is required when operated with cover.

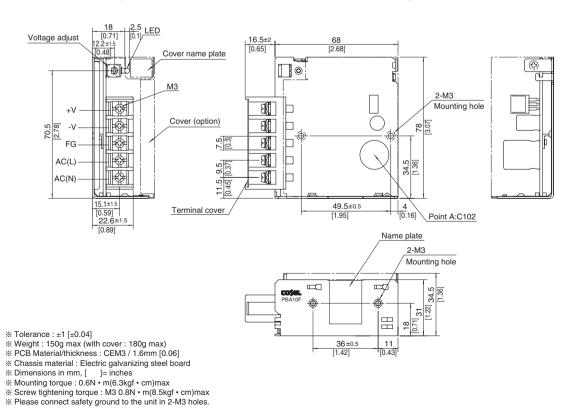
 A sound may occur from power supply at peak loading.





External view

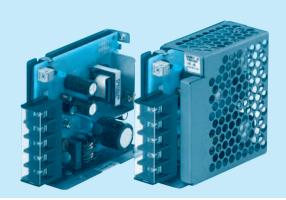
* External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



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Example recommended EMI/EMC filter NAC-06-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

Cover is optional

Series name
 Single output

(3) Output wattage 4 Universal input

⑤Output voltage

Optional *5
 C:with Coating

G:Low leakage current

E:Low leakage current and EMI class A

T :Vertical terminal block

J :Connector type

N :with Cover (UL508 is acquired [5V, 12V, 24V])

N1: with DIN rail and Cover

V:Output voltage setting potentiometer external-

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

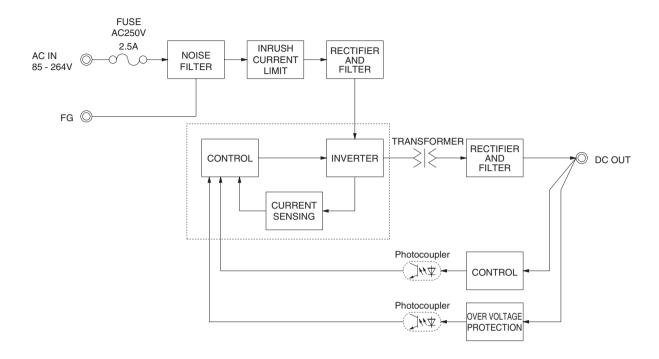
MODEL	PBA15F-3R3	PBA15F-5	PBA15F-9	PBA15F-12	PBA15F-15	PBA15F-24	PBA15F-48
MAX OUTPUT WATTAGE[W]	9.9	15	15.3	15.6	15	16.8	16.8
DC OUTPUT	3.3V 3A	5V 3A	9V 1.7A	12V 1.3A	15V 1A	24V 0.7A	48V 0.35A

	MODEL		PBA15F-3R3	PBA15F-5	PBA15F-9	PBA15F-12	PBA15F-15	PBA15F-24	PBA15F-48	
	VOLTAGE[V]		AC85 - 264 1 φ	or DC110 - 370	(AC50 or DC70	Please refer to the	ne instruction ma	nual 2.1 Input vo	ltage *3)	
	CUDDENTIAL	ACIN 100V	0.30typ (lo=100%)	0.4typ (lo=100%	6)					
	CURRENT[A]	ACIN 200V	0.15typ (lo=100%)	0.2typ (lo=100%	6)					
DUTPUT DITPUT TEMI DO OVI OUT OUT OUT OUT OUT OUT OUT OU	FREQUENCY[Hz]		50/60 (47 - 440	or DC						
INPUT	EFFICIENCY[%]	ACIN 100V	68typ	74typ	75typ	75typ	77typ	75typ	75typ	
	EFFICIENCT[%]	ACIN 200V	68typ	75typ	77typ	78typ	80typ	78typ	78typ	
	INRUSH CURRENT[A]	ACIN 100V	15typ (lo=100%) (At cold start)						
	INNUSH CONNENT[A]	ACIN 200V	30typ (Io=100%) (At cold start)						
	LEAKAGE CURREN	T[mA]	0.15/0.30max (A	ACIN 100V/240V	60Hz, lo=100%,	According to IEC	C60950-1,DENAN	1)		
	VOLTAGE[V]		3.3	5	9	12	15	24	48	
	CURRENT[A]		3	3	1.7	1.3	1	0.7	0.35	
	LINE REGULATION[mV] *6	20max	20max	36max	48max	60max	96max	192max	
	LOAD REGULATION	[mV] *6	40max	40max	100max	100max	120max	150max	240max	
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	120max	120max	150max	
	···· · · · · · · · · · · · · · · · · ·	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	150max	250max	
OUTPUT	TIII T EE HOIOE[IIIVP P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	
	TEMPERATURE REGULATION[mV]	0 to +50℃		50max	90max	120max	150max	240max	480max	
		-10 to +50℃		60max	120max	150max	180max	290max	600max	
	DRIFT[mV]	*2	20max	20max	36max	48max	60max	96max	192max	
	START-UP TIME[ms]			, lo=100%) ∗ Start-ı	up time is 700ms typ	for less than 1minu	ite of applying input	again from turning of	off the input voltage	
	HOLD-UP TIME[ms]		20typ (ACIN 10			1				
	OUTPUT VOLTAGE ADJUSTMEN		2.85 - 3.60	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		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	
DDOTEOTION	OVERCURRENT PROT			% of rated currer					1	
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC		4.00 - 5.25	5.75 - 7.00	11.5 - 14.0	15.0 - 18.0	20.0 - 25.0	30.0 - 37.0	58.0 - 65.0	
OTHERS	OPERATING INDICA	TION	LED (Green)							
	REMOTE ON/OFF		None							
	INPUT-OUTPUT			ute, Cutoff currer						
ISOLATION	INPUT-FG		· ·	ute, Cutoff currer	· · · · · · · · · · · · · · · · · · ·	\		,		
	OUTPUT-FG			e, Cutoff current						
	OPERATING TEMP.,HUMID.AND			equired Derating	, .			eet) max		
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALIIIUDE		0 - 90%RH (Non						
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT	. AC innut)	196.1m/s ² (20G), 11ms, once each X, Y and Z axis							
SAFETY AND	AGENCY APPROVALS (At only CONDUCTED NOISE		· · · · · · · · · · · · · · · · · · ·							
NOISE REGULATIONS			Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B							
	HARMONIC ATTENU		Complies with IEC61000-3-2 (Not built-in to active filter *4) *7 31 × 78 × 85mm [1.22 × 3.07 × 3.35 inches] (without terminal block) (W×H×D) / 200g max (with cover : 235g max)							
OTHERS	CASE SIZE/WEIGHT			[1.22 X 3.07 X 3.3	so inches] (withou	ut terminai biock)	(WXHXD) / 20	oug max (with co	ver : 235g max)	
	COOLING METHOD		Convection							

- 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.
- *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.
- Please contact us about class C.
- Parallel operation with other model is not possible
- Derating is required when operated with cover.

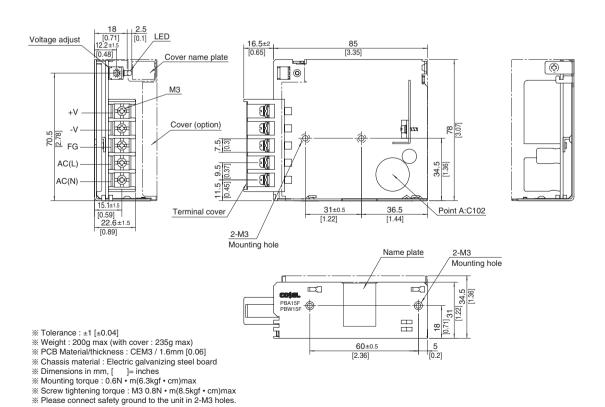
 A sound may occur from power supply at peak loading.





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.



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Example recommended EMI/EMC filter NAC-06-472

High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

Cover is optional

①Series name ②Single output

(3) Output wattage 4 Universal input

⑤Output voltage

Optional *5
 C:with Coating

G:Low leakage current

E:Low leakage current

and EMI class A

T :Vertical terminal block

J :Connector type N :with Cover

(UL508 is acquired [5V, 12V, 24V])

N1: with DIN rail and Cover

V:Output voltage setting potentiometer external-

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

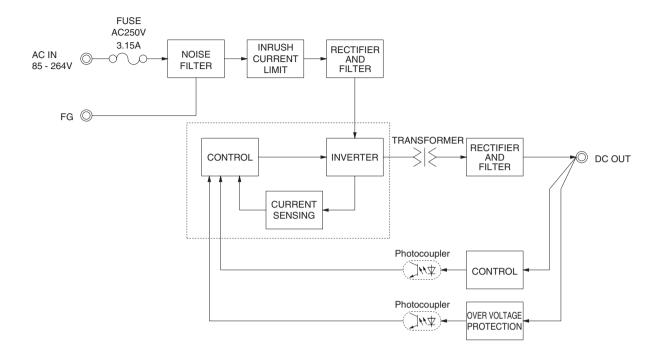
MODEL	PBA30F-3R3	PBA30F-5	PBA30F-9	PBA30F-12	PBA30F-15	PBA30F-24	PBA30F-48
MAX OUTPUT WATTAGE[W]	19.8	30	30.6	30	30	31.2	31.2
DC OUTPUT	3.3V 6A	5V 6A	9V 3.4A	12V 2.5A	15V 2A	24V 1.3A	48V 0.65A

	MODEL		PBA30F-3R3	PBA30F-5	PBA30F-9	PBA30F-12	PBA30F-15	PBA30F-24	PBA30F-48		
	VOLTAGE[V]		AC85 - 264 1 φ	or DC110 - 370	(AC50 or DC70	Please refer to th	ne instruction ma	nual 2.1 Input vo	ltage *3)		
	CUDDENTIAL	ACIN 100V	0.50typ (lo=100%)	0.70typ (Io=100	%)						
	CURRENT[A]	ACIN 200V	0.30typ (lo=100%)	0.40typ (lo=100	%)						
	FREQUENCY[Hz]		50/60 (47 - 440)	or DC							
NPUT	EFFICIENOVIO/1	ACIN 100V	68typ	74typ	75typ	76typ	78typ	78typ	79typ		
	EFFICIENCY[%]	ACIN 200V	69typ	77typ	77typ	78typ	81typ	81typ	81typ		
	INDUCH CURRENTIAL	ACIN 100V	15typ (lo=100%) (At cold start)							
	INRUSH CURRENT[A]	ACIN 200V	30typ (Io=100%) (At cold start)							
	LEAKAGE CURREN	T[mA]	0.30/0.65max (A	ACIN 100V/240V	60Hz, lo=100%,	According to IEC	C60950-1,DENAN	۷)			
	VOLTAGE[V]		3.3	5	9	12	15	24	48		
	CURRENT[A]		6	6	3.4	2.5	2	1.3	0.65		
	LINE REGULATION[mV] *6	20max	20max	36max	48max	60max	96max	192max		
	LOAD REGULATION	[mV] *6	40max	40max	100max	100max	120max	150max	240max		
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	120max	120max	150max		
	HIPPEE[IIIVP-P]	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max		
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	150max	250max		
UTPUT	MIPPLE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max		
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	90max	120max	150max	240max	480max		
D	TEMPERATURE REGULATION[IIV]	-10 to +50℃	60max	60max	120max	150max	180max	290max	600max		
	DRIFT[mV]	*2	20max	20max	36max	48max	60max	96max	192max		
	START-UP TIME[ms]		200typ(ACIN 100V	lo=100%) *Start-u	up time is 700ms typ	for less than 1minu	ite of applying input	again from turning of	off the input volta		
	HOLD-UP TIME[ms]		20typ (ACIN 10	OV, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT		2.85 - 3.60	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	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	48.00 - 49.9		
	OVERCURRENT PROT	ECTION	Works over 105	% of rated curre	nt and recovers a	utomatically					
ROTECTION IRCUIT AND	OVERVOLTAGE PROTEC		4.00 - 5.25	5.75 - 7.00	11.5 - 14.0	15.0 - 18.0	20.0 - 25.0	30.0 - 37.0	58.0 - 65.0		
THERS	OPERATING INDICA	TION	LED (Green)								
	REMOTE ON/OFF		None								
	INPUT-OUTPUT				nt = 10mA, DC50						
SOLATION	INPUT-FG				nt = 10mA, DC50						
	OUTPUT-FG				= 25mA, DC500						
	OPERATING TEMP.,HUMID.AND), 20 - 90%RH (N			eet) max			
NVIRONMENT	STORAGE TEMP.;HUMID.AND	ALTITUDE			condensing) 9,00						
	VIBRATION			- 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT				ch X, Y and Z a						
MILLIAND	AGENCY APPROVALS (At only		· ·								
IOISE	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
EGULATIONS	HARMONIC ATTENU				ot built-in to active						
OTHERS	CASE SIZE/WEIGHT		31 x 78 x 103mm [1.22 x 3.07 x 4.06 inches] (without terminal block) (W x H x D) / 270g max (with cover : 310g max)								
,E.113	COOLING METHOD		Convection								

- 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.
- *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.
- Please contact us about class C.
- Parallel operation with other model is not possible
- Derating is required when operated with cover.

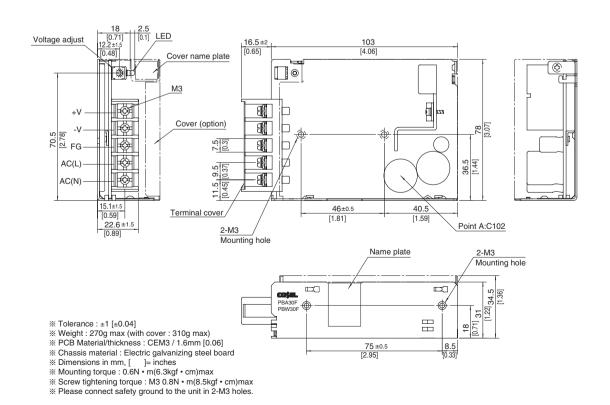
 A sound may occur from power supply at peak loading.





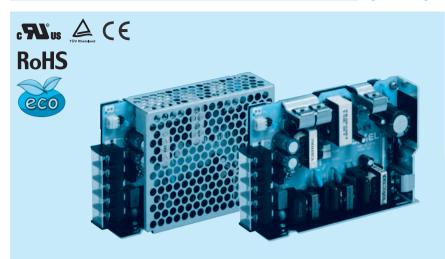
External view

** 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.



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Example recommended EMI/EMC filter NAC-06-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- ①Series name ②Single output
- (3) Output wattage
- 4 Universal input
- ⑤Output voltage
- Optional *5
 C:with Coating
 - G:Low leakage current (0.15mA max / ACIN 240V)
 - E:Low leakage current and EMI class A (0.5mA max / ACIN 240V)
- T :Vertical terminal block
- J :Connector type
- R:with Remote ON/OFF
- N :with Cover (Only 24V UL508 is acquired)
- N1 :with DIN rail and Cover V:Output voltage setting potentiometer external-

Cover is optional

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

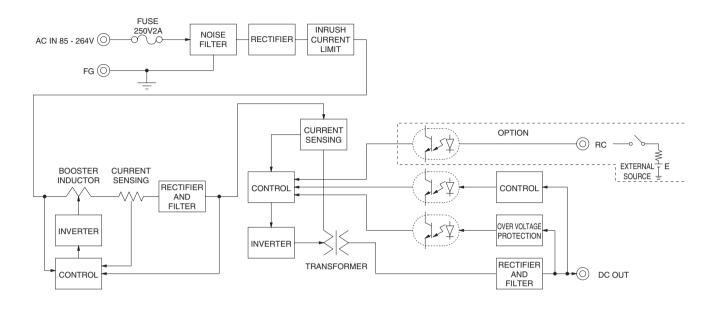
MODEL	PBA50F-3R3	PBA50F-5	PBA50F-9	PBA50F-12	PBA50F-15	PBA50F-24	PBA50F-36	PBA50F-48
MAX OUTPUT WATTAGE[W]	33	50	50.4	51.6	52.5	52.8	50.4	52.8
DC OUTPUT	3.3V 10A	5V 10A	9V 5.6A	12V 4.3A	15V 3.5A	24V 2.2A	36V 1.4A	48V 1.1A

	MODEL		PBA50F-3R3	PBA50F-5	PBA50F-9	PBA50F-12	PBA50F-15	PBA50F-24	PBA50F-36	PBA50F-48	
	VOLTAGE[V]		AC85 - 264 1 φ	or DC120 - 37	0 (AC50 or DC7	D Please refer to	the instruction r	nanual 2.1 Input	voltage *4)		
	OUDDENTIAL	ACIN 100V	0.5typ	0.7typ							
	CURRENT[A]	ACIN 200V	0.3typ	0.4typ							
	FREQUENCY[Hz]		50/60 (47 - 63)								
	EFFICIENCY/O/1	ACIN 100V	75typ	80typ	79typ	80typ	81typ	82typ	83typ	83typ	
INPUT	EFFICIENCY[%]	ACIN 200V	76typ	82typ	81typ	82typ	83typ	84typ	85typ	85typ	
	DOWED FACTOR/L 4000/	ACIN 100V	0.98typ	0.99typ							
	POWER FACTOR(Io=100%)	ACIN 200V	0.87typ	0.93typ							
	INDUOLI QUIDDENTIAL	ACIN 100V	15typ (lo=100%) (At cold start)								
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%) (At cold start)								
	LEAKAGE CURRENT[r	nA]	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]		10	10	5.6	4.3	3.5	2.2	1.4	1.1	
	LINE REGULATION[m\	/]	20max	20max	36max	48max	60max	96max	144max	192max	
	LOAD REGULATION[m	ıV]	40max	40max	100max	100max	120max	150max	240max	240max	
	DIDDI E(m)/m m1	0 to +50°C *1	80max	80max	120max	120max	120max	120max	150max	150max	
	RIPPLE[mVp-p]	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max	
	DIDDLE MOIOEL-W1	0 to +50°C *1	120max	120max	150max	150max	150max	150max	250max	250max	
DUIPUI	RIPPLE NOISE[mVp-p]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	300max	
	TEMPERATURE REGULATION[mV]	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 10	00V, lo=100%)				•				
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)								
	OUTPUT VOLTAGE ADJUSTMENT	T 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 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	35.00 - 37.44	48.00 - 49.92	
	OVERCURRENT PROT	ECTION	Works over 105	% of rated curr	ent and recovers	automatically					
PROTECTION CIRCUIT AND	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	
OTHERS	OPERATING INDICATION	NC	LED (Green)								
	REMOTE ON/OFF		Optional (Requ	ired external po	wer source)						
	INPUT-OUTPUT · RC	*3	AC3,000V 1mir	ute, Cutoff curr	ent = 10mA, DC	500V 50MΩmin	(At Room Tempe	erature)			
ISOLATION	INPUT-FG		AC2,000V 1mir	ute, Cutoff curr	ent = 10mA, DC	500V 50MΩmin	(At Room Tempe	erature)			
	OUTPUT · RC-FG	*3	AC500V 1minu	te, Cutoff currer	nt = 100mA, DC5	600V 50MΩmin (At Room Tempe	erature)			
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +71°C (F	Required Deratin	g), 20 - 90%RH	(Non condensing	g) 3,000m (10,00	Ofeet) max			
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 2	0 - 90%RH (No	n condensing) 9,	000m (30,000fee	et) max				
ENVIRONWENT	VIBRATION		10 - 55Hz, 19.6	6m/s ² (2G), 3m	inutes period, 60	minutes each ald	ong X, Y and Z a	axis			
	IMPACT		196.1m/s ² (200	a), 11ms, once	each X, Y and Z	axis					
SAFETY AND	AGENCY APPROVALS (At only	AC input)	UL60950-1, C-	JL(CSA60950-1), EN60950-1, E	N50178 Complie	s with DEN-AN				
NOISE	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
REGULATIONS	HARMONIC ATTENUAT	ΓOR	Complies with IEC61000-3-2 *6								
OTHERS	CASE SIZE/WEIGHT		31 × 82 × 120m	m [1.22 × 3.23 ×	4.72 inches] (wit	hout terminal blo	ock) (W×H×D)	/ 280g max (wit	h cover : 325g m	ax)	
OTHERS	COOLING METHOD		Convection					-			

- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN
- 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
- *4 Derating is required.

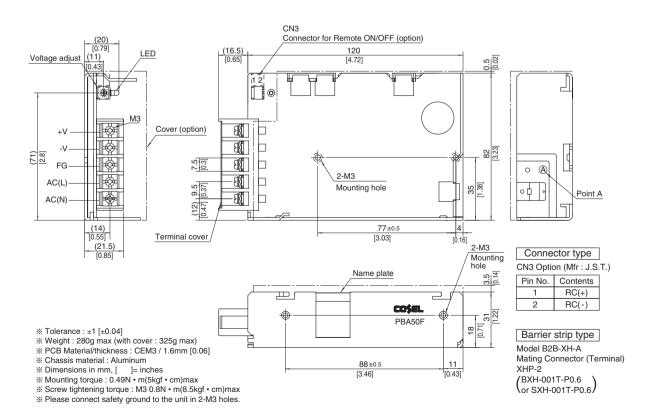
- *5 Please contact us about safety approvals for the model with option.
- *6 Please contact us about class C.
- Parallel operation with other model is not possible.
- Derating is required when operated with cover A sound may occur from power supply at peak loading.





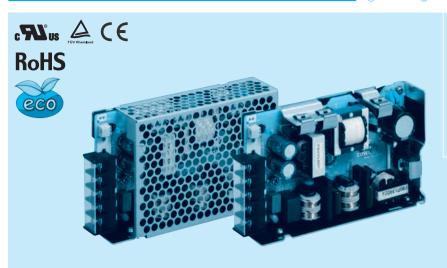
External view

* 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.



PBA75F

75 F



Example recommended EMI/EMC filter NAC-06-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- ①Series name ②Single output (3) Output wattage
- 4 Universal input
- ⑤Output voltage
- Optional *5
 C:with Coating
 - G:Low leakage current (0.15mA max / ACIN 240V)
 - E:Low leakage current and EMI class A (0.5mA max / ACIN 240V)
- T :Vertical terminal block
- J :Connector type
- R:with Remote ON/OFF
- N :with Cover (Only 24V UL508 is acquired) N1 :with DIN rail and Cover
- V:Output voltage setting potentiometer external-

Cover is optional

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

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

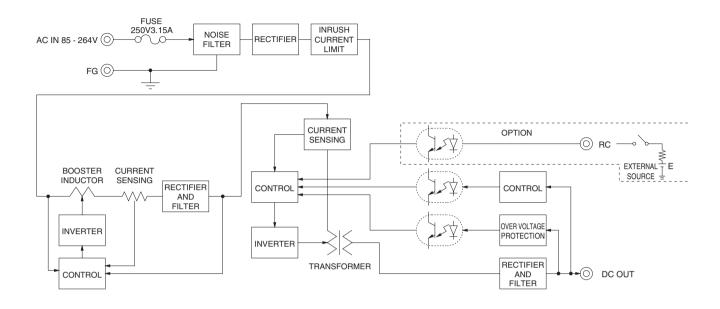
	MODEL		PBA75F-3R3	PBA75F-5	PBA75F-9	PBA75F-12	PBA75F-15	PBA75F-24	PBA75F-36	PBA75F-48	
	VOLTAGE[V]		AC85 - 264 1 φ	or DC120 - 370	(AC50 or DC70	Please refer to	the instruction n	nanual 2.1 Input	voltage *4)		
	CURRENT[A]	ACIN 100V	0.7typ	1.0typ							
	CURRENT[A]	ACIN 200V	0.4typ	0.5typ							
	FREQUENCY[Hz]		50/60 (47 - 63)								
	EFFICIENCY[%]	ACIN 100V	77typ	81typ	80typ	81typ	82typ	83typ	84typ	84typ	
INPUT	EFFICIENCT[%]	ACIN 200V	78typ	83typ	82typ	83typ	84typ	85typ	86typ	86typ	
	POWER FACTOR(Io=100%)	ACIN 100V	0.98typ	0.99typ							
	POWER PACTOR(IO=100 /6)	ACIN 200V		0.93typ							
	INRUSH CURRENT[A]	ACIN 100V									
	INNUSTI CUNNENT[A]	ACIN 200V	30typ (lo=100%) (At cold start)								
	LEAKAGE CURRENT[r	nA]		CIN 100V/240V		According to IE					
	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\		20max	20max	36max	48max	60max	96max	144max	192max	
	LOAD REGULATION[m		40max	40max	100max	100max	120max	150max	240max	240max	
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	120max	120max	150max	150max	
	==[p p]	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max	
	RIPPLE NOISE[mVp-p]	0 to +50°C * 1	120max	120max	150max	150max	150max	150max	250max	250max	
OUTPUT	TILL TEL HOIDE[IIIVP-P]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	300max	
	TEMPERATURE REGULATION(mV)	0 to +50℃		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 100V, Io=100%)								
	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=100%)								
	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		3.30 - 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	
PROTECTION	OVERCURRENT PROT						1			1	
CIRCUIT AND	OTENTOEIAGE THOTEG		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	
OTHERS	OPERATING INDICATION	ON	LED (Green)								
	REMOTE ON/OFF			ired external pov		-00// 501/0'.	/ALD				
	INPUT-OUTPUT · RC	*3				500V 50MΩmin					
ISOLATION	INPUT-FG					500V 50MΩmin					
	OUTPUT · RC-FG OPERATING TEMP., HUMID. AND	ALTITUDE				00V 50MΩmin ((Non condensing					
	STORAGE TEMP.,HUMID.AND					000m (30,000fee		oleet) max			
ENVIRONMENT	VIBRATION	ALIIIUDE				minutes each ald		vio			
	IMPACT				ach X, Y and Z		niy ∧, r alid ∠ a	INIO			
		/ AC innut)		,			e with DENLAN				
SAFETY AND NOISE	CONDUCTED NOISE	Ao input)	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								
	HARMONIC ATTENUAT	OR	Complies with IEC61000-3-2 *6								
	CASE SIZE/WEIGHT	· · · ·				hout terminal blo	ck) (W×H×D)	350g max (with	n cover : 400g m	ax)	
OTHERS	COOLING METHOD		Convection	11.20 \ 0.20 \	o.or mones (wit	noat torrillial bio	ON (WATIAD) /	GOOG MAX (WIL	1 00 VOI . +00g III	un,	
	SSSERIA METIOD		CONVOCION								

- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN
- *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
- *4 Derating is required.

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

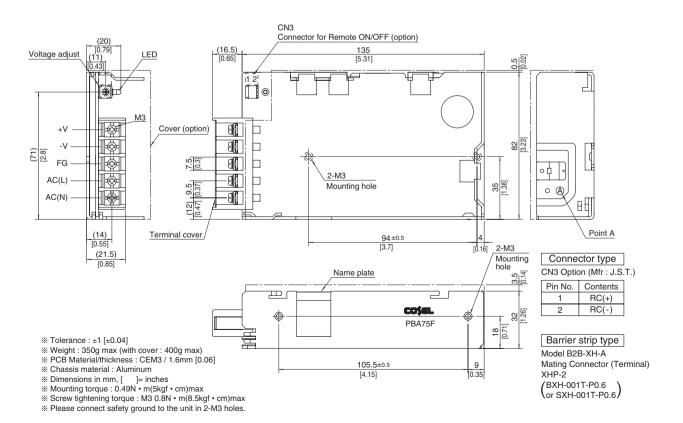






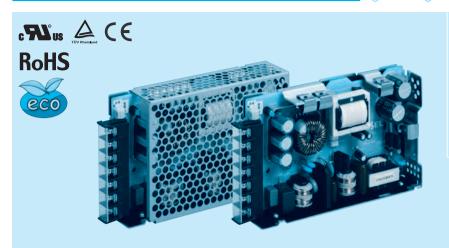
External view

* 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.



PBA100F

100



Example recommended EMI/EMC filter NAC-06-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- ①Series name ②Single output
- (3) Output wattage 4 Universal input
- ⑤Output voltage
- Optional *5
 C:with Coating
 - G:Low leakage current (0.15mA max / ACIN 240V)
 - E:Low leakage current and EMI class A (0.5mA max / ACIN 240V) T:Vertical terminal block

 - J :Connector type (Only -12,-15,-24,-36,-48)
 - R:with Remote ON/OFF
- N :with Cover
- (Only 24V UL508 is acquired) N1 :with DIN rail and Cover
- V:Output voltage setting potentiometer external-

Cover is optional

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

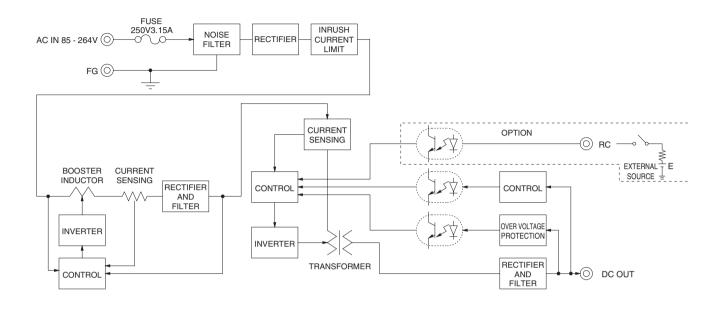
MODEL	PBA100F-3R3	PBA100F-5	PBA100F-9	PBA100F-12	PBA100F-15	PBA100F-24	PBA100F-36	PBA100F-48
MAX OUTPUT WATTAGE[W]	66	100	94.5	102	105	108	100.8	100.8
DC OUTPUT	3.3V 20A	5V 20A	9V 10.5A	12V 8.5A	15V 7A	24V 4.5A	36V 2.8A	48V 2.1A

POWER FACTOR(IG=100%) ACM 100W 0.98typ 0.99typ 0.93typ		MODEL		PBA100F-3R3	PBA100F-5	PBA100F-9	PBA100F-12	PBA100F-15	PBA100F-24	PBA100F-36	PBA100F-48	
CURRENT A A CON 2007 0.5 typ 0.7 typ		VOLTAGE[V]		AC85 - 264 1 φ	or DC120 - 370	(AC50 or DC7	Please refer to	the instruction r	nanual 2.1 Input	voltage *4)		
PREQUENCY 12 25066 (47 - 63) 81typ 83typ 84typ 84		OUDDENTIAL	ACIN 100V	0.9typ	1.3typ							
		CURRENT[A]	ACIN 200V	0.5typ	0.7typ							
POWER FACTOR(s- 100%) ACM 200V 79typ 84typ 82typ 83typ 86typ		FREQUENCY[Hz]		50/60 (47 - 63)	,							
POWER FACTOR(s- 100%) ACM 200V 79typ 84typ 82typ 83typ 86typ			ACIN 100V	77typ	82typ	80typ	81typ	83typ	84typ	84tvp	84typ	
POWER FACTOR(lo=100%) ACM 200V 0.98/typ 0.98/typ 0.98/typ	INPUT	EFFICIENCY[%]	ACIN 200V	79typ								
INRUSH CURRENT[A]			ACIN 100V	0.98typ		, ,,	, ,,	, ,,			, ,,	
INRUSH CURRENT[IA]		POWER FACTOR(Io=100%)	ACIN 200V	0.87tvp	0.93tvp							
INRUSH CURRENTIA												
LEAKAGE CURRENT[mA]		INRUSH CURRENT[A]		40typ (lo=100%) (At cold start)								
VOLTAGE[V] 3.3 5 9 12 15 24 36 48		LEAKAGE CURRENTIN	nA1									
CURRENT[A] 20 20 10.5 8.5 7 4.5 2.8 2.1										36	48	
LINE REGULATION[mV]		CURRENTIAL		20	20	10.5	8.5	7	4.5	2.8	2.1	
OUTPUT Higher Regulation House			/1	20max		36max		60max	96max	144max		
OUTPUT Continue				40max	40max	100max	100max	120max	150max	240max	240max	
OUTPUT TIME[ms] 10 - 0 C * 1			0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max	
OUTPUT		RIPPLE[mVp-p]	-10 - 0℃ *1		140max	160max	160max	160max	160max	200max	200max	
OUTPUT HIPPLE NOISE TMVP-P 10 - 0 C * 160max 160max 180max 180max 180max 180max 300max 300max 300max 300max 300max 120max 150max 240max 360max 480max 480max 360max 480max 360max 480max 360max 480max 360max 480max 360max			_		120max				150max	250max	250max	
TEMPERATURE REGULATION(mV)	OUTPUT	RIPPLE NOISE[mVp-p]										
Internation												
DRIFT[mV] \$2 20max 20max 36max 48max 60max 96max 144max 192max	1	TEMPERATURE REGULATION[mV]										
START-UP TIME[ms] 350typ(ACIN 100V. lo=100%) HOLD-UP TIME[ms] 20typ (ACIN 100V. lo=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] 3.20 - 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 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) 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) INPUT-FG AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING TEMP.HUMIDAND ALTITUDE -10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3.000m (10.000feet) max STORAGE TEMP.HUMIDAND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 3.000m (30.000feet) max STORAGE TEMP.HUMIDAND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 3.000m (30.000feet) max STORAGE TEMP.HUMIDAND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 3.000m (30.000feet) max STORAGE TEMP.HUMIDAND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 3.000m (30.000feet) max STORAGE TEMP.HUMIDAND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 4.000feet) max STORAGE TEMP.HUMIDAND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 4.000feet) max STORAGE TEMP.HUMIDAND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 5.000m (30.000feet) max STORAGE TEMP.HUMIDAND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 5.000m (30.000feet) max STORAGE TEMP.HUMIDAND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 5.000m (30.000feet) max STORAGE		DRIFT[mV]			20max							
OUTPUT VOLTAGE ADJUSTÍMENT 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				350typ(ACIN 10	00V, lo=100%)					'		
OUTPUT VOLTAGE ADJUSTÍMENT 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		HOLD-UP TIME[ms]		20typ (ACIN 10	0V, lo=100%)							
OVERCURRENT PROTECTION OVERVOLTAGE PROTECTION 0.0 - 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		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	
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		OUTPUT VOLTAGE SET	TING[V]	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	
OPERATING INDICATION OTHERS OPERATING INDICATION CIRCUIT AND OTHERS OPERATING INDICATION REMOTE SENSING REMOTE SENSING REMOTE ON/OFF Optional (Required external power source) Optional (Required external power source) INPUT-OUTPUT · RC **A C3.000V Iminute. Cutoff current = 10mA. DC500V 50MΩmin (At Room Temperature) INPUT-FG OUTPUT · RC-FG **3 AC500V Iminute, Cutoff current = 10mA. DC500V 50MΩmin (At Room Temperature) OPERATING TEMP.HUMID.AND ALTITUDE **OPERATING TEMP.HUMID.AND ALTITUDE **TORAGE TEMP.HUMID.AND ALTITUDE **TORAGE TEMP.HUMID.AND ALTITUDE **OPERATION IMPACT INPACT **AGENCY APPROVALS (At only AC input) **ONDISE **REGULATIONS **OCODIUCTED NOISE **CASE SIZE/WEIGHT **OCODIUCTED NOISE CASE SIZE/WEIGHT **OCODIUCTED NOISE CASE SIZE/WEIGHT **Optional (Only -3R3, -5 Option -K) Optional (Required external power source) **Optional (Required external power		OVERCURRENT PROT	ECTION	Works over 105	% of rated curre	ent and recovers	automatically		•	•		
OPERATING INDICATION REMOTE SENSING REMOTE ON/OFF Optional (Only ⋅3R3, ⋅5 Option ⋅K) REMOTE ON/OFF Optional (Required external power source) INPUT-OUTPUT ⋅ RC INPUT-OUTPUT ⋅ RC INPUT-FG AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature) OUTPUT ⋅ RC-FG AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature) OUTPUT ⋅ RC-FG AC5.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature) OUTPUT ⋅ RC-FG AC5.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING TEMP,HUMID.AND ALTITUDE -10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max STORAGE TEMP,HUMID.AND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max VIBRATION IMPACT INPACT AGENCY APPROVALS (At only AC input) VICHOPS COOPLICS AG0950-1), EN60950-1, EN50178 Complies with DEN-AN CONDUCTED NOISE REGULATIONS CASE SIZE/WEIGHT CASE SIZE/WEIGHT AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPERATING INPACT -10 the Time of the current = 10mA, DC500V 50MΩmin (At Room Temperature) OPE	PROTECTION	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	
REMOTE ON/OFF Optional (Chily '3753, '3 Optional '0 Optional (Required external power source)	CIRCUIT AND	OPERATING INDICATION	ON	LED (Green)					•		•	
INPUT-OUTPUT · RC **3 AC3.000V 1minute. Cutoff current = 10mA. DC500V 50MΩmin (At Room Temperature)	OTHERS	REMOTE SENSING		Optional (Only	-3R3, -5 Option	-K)						
INPUT-FG		REMOTE ON/OFF		Optional (Requi	red external pov	ver source)						
OUTPUT · RC-FG **3 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature) PENVIRONMENT SOTRAGE TEMP.HUMID.AND ALTITUDE -10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max VIBRATION 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis MPACT 196.1m/s² (20G), 11ms, once each X, Y and Z axis SAFETY AND NOISE REGULATIONS CONDUCTED NOISE UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN CONDUCTED NOISE Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B HARMONIC ATTENUATOR Complies with IEC61000-3-2 *6 CASE SIZE/WEIGHT 32×93×147mm [1.26×3.66×5.79 inches] (without terminal block) (W×H×D) / 440g max (with cover: 500g max)		INPUT-OUTPUT · RC	*3	AC3,000V 1min	ute, Cutoff curre	ent = 10mA, DC	500V 50MΩmin	(At Room Tempe	erature)			
OPERATING TEMP.HUMID.AND ALTITUDE -10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3.000m (10.000feet) max	ISOLATION	INPUT-FG		AC2,000V 1min	ute, Cutoff curre	ent = 10mA, DC	500V 50MΩmin	(At Room Tempe	erature)			
STORAGE TEMP.HUMID.AND ALTITUDE -20 to +75°C, 20 - 90%RH (Non condensing) 9.000m (30.000feet) max		OUTPUT · RC-FG	*3	AC500V 1minut	e, Cutoff curren	t = 100mA, DC5	00V 50MΩmin (At Room Tempe	erature)			
VIBRATION 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis IMPACT 196.1m/s² (20G), 11ms, once each X, Y and Z axis SAFETY AND NOISE REGULATIONS CONDUCTED NOISE REGULATIONS CONDUCTED NOISE REGULATIONS CONDUCTED NOISE REGULATIONS CONDUCTED NOISE COMPLIES With FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B CASE SIZE/WEIGHT 32 × 93 × 147mm [1.26 × 3.66 × 5.79 inches] (without terminal block) (W×H×D) / 440g max (with cover : 500g max)		OPERATING TEMP., HUMID.AND	ALTITUDE	-10 to +71°C (F	equired Derating	g), 20 - 90%RH	(Non condensing	g) 3,000m (10,00	Ofeet) max			
VIBRATION 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis IMPACT 196.1m/s² (20G), 11ms, once each X, Y and Z axis SAFETY AND NOISE REGULATIONS OTHERS OTHERS OWNER 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis 196.1m/s² (20G), 11ms, once each X, Y and Z axis UL60950-1, EN60950-1, EN50178 Complies with DEN-AN CONDUCTED NOISE Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B HARMONIC ATTENUATOR COMPLIES 32×93×147mm [1.26×3.66×5.79 inches] (without terminal block) (W×H×D) / 440g max (with cover: 500g max)	ENVIDONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 2	0 - 90%RH (Nor	condensing) 9,	000m (30,000fee	et) max				
AGENCY APPROVALS (At only AC input) UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN CONDUCTED NOISE REGULATIONS HARMONIC ATTENUATOR CASE SIZE/WEIGHT CASE SIZE/WEIGHT DU60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN Com	ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6								
NOISE CONDUCTED NOISE Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 *6 OTHERS CASE SIZE/WEIGHT 32×93×147mm [1.26×3.66×5.79 inches] (without terminal block) (W×H×D) / 440g max (with cover: 500g max)		IMPACT										
NOISE REGULATIONS CONDUCTED NOISE Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B CONDUCTED NOISE Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B CONDUCTED NOISE Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B CONDUCTED NOISE Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B CONDUCTED NOISE Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B CONDUCTED NOISE COMPLIES COMPL	SAFETY AND	AGENCY APPROVALS (At only	/ AC input)	UL60950-1, C-U	JL(CSA60950-1)), EN60950-1, E	N50178 Complie	s with DEN-AN				
OTHERS CASE SIZE/WEIGHT 32 x 93 x 147mm [1.26 x 3.66 x 5.79 inches] (without terminal block) (W x H x D) / 440g max (with cover : 500g max)	NOISE	CONDUCTED NOISE		Complies with F	CC Part15 clas	sB, VCCI-B, CIS	PR22-B, EN550	11-B, EN55022-	·B			
OTHERS	REGULATIONS	HARMONIC ATTENUAT	TOR	Complies with IEC61000-3-2 *6								
UTITIERS COOLING METHOD Convection	OTHERS	CASE SIZE/WEIGHT		32×93×147mi	m [1.26 × 3.66 ×	5.79 inches] (wit	hout terminal blo	ock) (W×H×D)	/ 440g max (wit	h cover : 500g m	ax)	
COOLING MILITIOD CONVECTION	OTHERS	COOLING METHOD		Convection								

- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN
- 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
- *4 Derating is required.

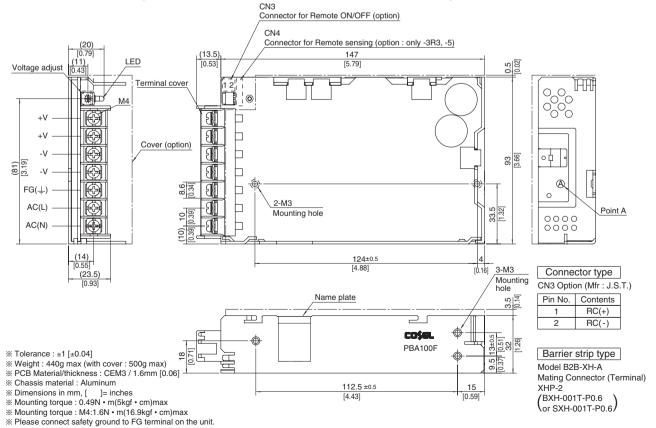
- *5 Please contact us about safety approvals for the model with option.
- *6 Please contact us about class C.
- Parallel operation with other model is not possible. Derating is required when operated with cover
- A sound may occur from power supply at peak loading.





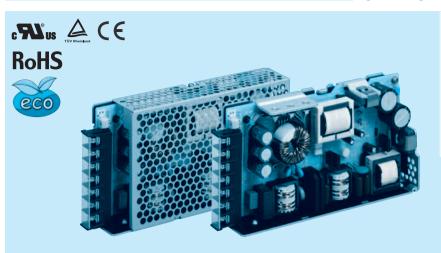
External view

* 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.



PBA150F

A 150 F -5



Example recommended EMI/EMC filter NAC-06-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- ①Series name ②Single output
- (3) Output wattage
- 4 Universal input
- ⑤Output voltage
- Optional *5
 C:with Coating

 - G:Low leakage current (0.15mA max / ACIN 240V)
 - E:Low leakage current and EMI class A (0.5mA max / ACIN 240V) T:Vertical terminal block

 - J :Connector type (Only -12,-15,-24,-36,-48)
 - R:with Remote ON/OFF
- N :with Cover
- (Only 24V UL508 is acquired) N1 :with DIN rail and Cover
- V:Output voltage setting potentiometer external-

Cover is optional

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

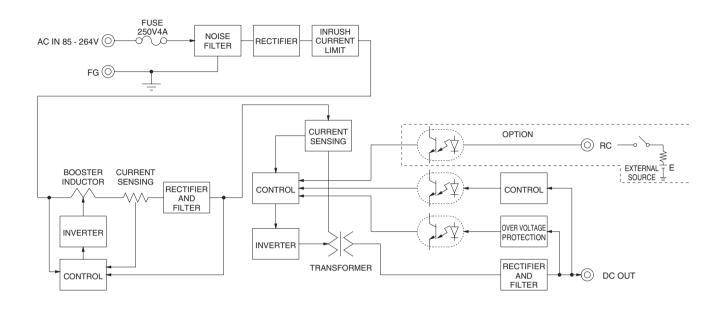
MODEL	PBA150F-3R3	PBA150F-5	PBA150F-9	PBA150F-12	PBA150F-15	PBA150F-24	PBA150F-36	PBA150F-48
MAX OUTPUT WATTAGE[W]	99	150	150.3	156	150	156	154.8	158.4
DC OUTPUT	3.3V 30A	5V 30A	9V 16.7A	12V 13A	15V 10A	24V 6.5A	36V 4.3A	48V 3.3A

	MODEL		PBA150F-3R3	PBA150F-5	PBA150F-9	PBA150F-12	PBA150F-15	PBA150F-24	PBA150F-36	PBA150F-48	
	VOLTAGE[V]		AC85 - 264 1 ϕ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *4)								
INPUT	CURRENT[A]	ACIN 100V	1.3typ	3typ 2.0typ							
	CURRENT[A]	ACIN 200V									
	FREQUENCY[Hz]		50/60 (47 - 63)								
	EFFICIENCY[%]	ACIN 100V	80typ	83typ	82typ	83typ	84typ	85typ	85typ	85typ	
		ACIN 200V	82typ	86typ	85typ	86typ	87typ	88typ	88typ	88typ	
	POWER FACTOR(Io=100%)	ACIN 100V	0.98typ	0.99typ							
		ACIN 200V									
	INRUSH CURRENT[A]	ACIN 100V	20typ (lo=100%) (At cold start)								
	INKUSH CUKKENI[A]	ACIN 200V	- 91 (
	LEAKAGE CURRENT[mA]		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	
ОИТРИТ	CURRENT[A]		30	30	16.7	13	10	6.5	4.3	3.3	
	LINE REGULATION[m\	/]	20max	20max	36max	48max	60max	96max	144max	192max	
	LOAD REGULATION[mV]		40max	40max	100max	100max	120max	150max	240max	240max	
	RIPPLE[mVp-p]	0 to +50°C * 1	80max	80max	120max	120max	120max	120max	150max	150max	
		-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max	
	DIDDI E NOISEIMVa-ni	0 to +50°C * 1	120max	120max	150max	150max	150max	150max	250max	250max	
		-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	300max	
	TEMPERATURE REGULATION(mV)	0 to +50℃	50max	50max	90max	120max	150max	240max	360max	480max	
	TEMPERATURE REGULATION[IIIV]	-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 100V, Io=100%)								
	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=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 SET		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		, , , , , , , , , , , , , , , , , , ,								
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	
	OPERATING INDICATION		LED (Green)								
OTHERS	REMOTE SENSING		Optional (Only -3R3, -5 Option -K)								
	REMOTE ON/OFF		Optional (Required external power source)								
ISOLATION	INPUT-OUTPUT · RC *3		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)								
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)								
	OUTPUT · RC-FG *3		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)								
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		10 to +71℃ (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max								
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max								
	VIBRATION		10 - 55Hz, 19.6m/s² (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								
NOISE	AGENCY APPROVALS (At only AC input)										
	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
	HARMONIC ATTENUAT	OR	Complies with IEC61000-3-2 *6								
OTHERS	CASE SIZE/WEIGHT		34×93×168mm [1.34×3.66×6.61 inches] (without terminal block) (W×H×D) / 560g max (with cover: 630g max)								
	COOLING METHOD		Convection								

- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN
- 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
- *4 Derating is required.

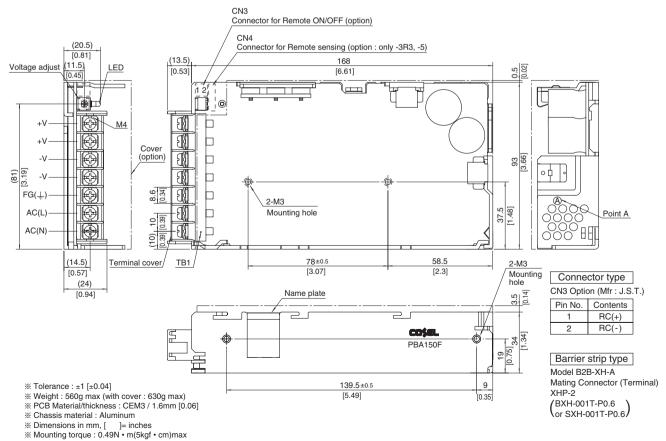
- *5 Please contact us about safety approvals for the model with option.
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- Parallel operation with other model is not possible.
- Derating is required when operated with cover A sound may occur from power supply at peak loading.





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.



单击下面可查看定价,库存,交付和生命周期等信息

>>COSEL