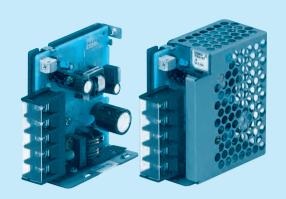
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PBA10F

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Recommended EMI/EMC Filter NAC-06-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

- 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-

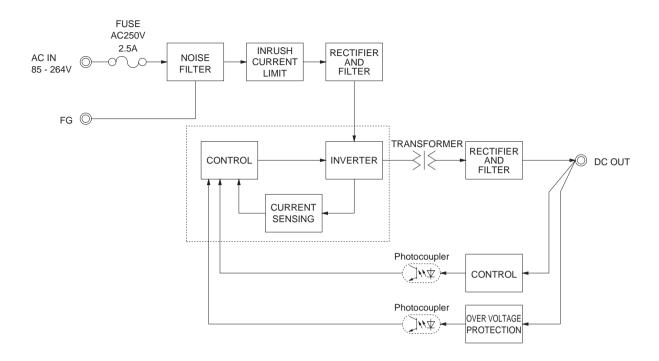
Cover is on	tional

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 (lo=100%)		
	FREQUENCY[Hz]		50/60 (47 - 440) or DC		
INPUT	EFFICIENCY[0/1	ACIN 100V	74typ	76typ	77typ
	VOLTAGE[V] CURRENT[A] ACIN 1 ACIN 2 FREQUENCY[Hz] EFFICIENCY[%] INRUSH CURRENT[A] LEAKAGE CURRENT[MA] VOLTAGE[V] CURRENT[A] LINE REGULATION[mV] RIPPLE [mVp-p] RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[mS] OUTPUT VOLTAGE SETTING[OVERCURRENT PROTECTION[TON] OVERCURRENT PROTECTION[TON] OVERCURRENT PROTECTION[TON] OVERCURRENT PROTECTION[TON] OVERCURRENT PROTECTION[TON] OPERATING INDICATION REMOTE ON/OFF INPUT-OUTPUT INPUT-FG OUTPUT-FG OUTPUT-FG OPERATION IMPACT	ACIN 200V	74typ	76typ	77typ
	INDUCH CHDDENTIAL	ACIN 100V	15typ (Io=100%)		
	INKOSH COKKENI[A]	ACIN 200V	30typ (Io=100%)		
	LEAKAGE CURREN	Γ[mA]	0.15/0.30max (ACIN 100V/240V 60Hz	r, Io=100%, According to IEC60950-1,D	PENAN)
	VOLTAGE[V]		5	12	24
	CURRENT[A]		2	0.9	0.5
	LINE REGULATION[I	mV] *6	20max	48max	96max
	LOAD REGULATION	[mV] *6	40max	100max	150max
	PIPPI F[m\/n_n]	0 to +50°C *1	80max	120max	120max
	KII I EE[IIIVP-P]	-10 - 0℃ *1	140max	160max	160max
	DIDDI E NOISEImVa ni	0 to +50°C * 1	120max	150max	150max
OUTPUT	KIPPLE NOISE[IIIVP-P]	-10 - 0℃ *1	160max	180max	180max
	TEMPEDATURE RECUIL ATION(m)/I	0 to +50℃	50max	120max	240max
	TEMPERATURE REGULATION[IIIV]	-10 to +50℃	60max	150max	290max
	DRIFT[mV]	*2	20max	48max	96max
	START-UP TIME[ms]		21	e 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	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 - 24.96
			Works over 105% of rated current and		
PROTECTION CIRCUIT AND			5.75 - 7.00	15.0 - 18.0	30.0 - 37.0
OTHERS		TION	LED (Green)		
			None		
				0mA, DC500V 50M Ωmin (At Room Te	
ISOLATION				0mA, DC500V 50M Ωmin (At Room Te	<u> </u>
				mA, DC500V 50MΩmin (At Room Tem	
			- 1 0	- 90%RH (Non condensing) 3,000m (10	0,000feet) max
ENVIRONMENT		ALTITUDE	-20 to +75°C, 20 - 90%RH (Non cond		
				eriod, 60minutes each along X, Y and	Z axis
			196.1m/s ² (20G), 11ms, once each X,		
OALLII AND	AGENCY APPROVALS (At only			0950-1, EN50178 Complies with DEN-	
NOISE REGULATIONS	CONDUCTED NOISE		•	CCI-B, CISPR22-B, EN55011-B, EN550)22-B
NEGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2 (Not buil		
OTHERS	CASE SIZE/WEIGHT		-	hes] (without terminal block) (WXHXD	0) / 150g max (with cover : 180g max)
	COOLING METHOD		Convection		

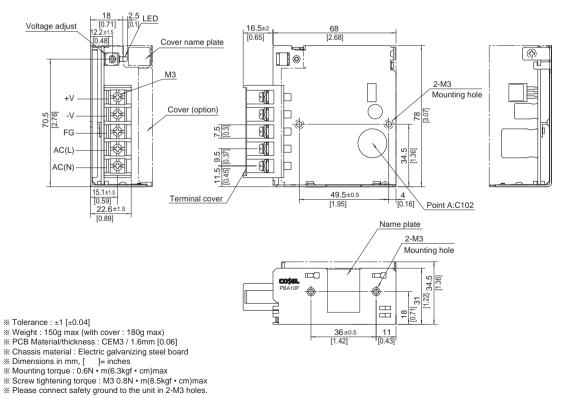
- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- *4 When two or more units are used,they may not comply with the harmonic attenuator. Please contact us for details.
- *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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PBA15F

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High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

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-

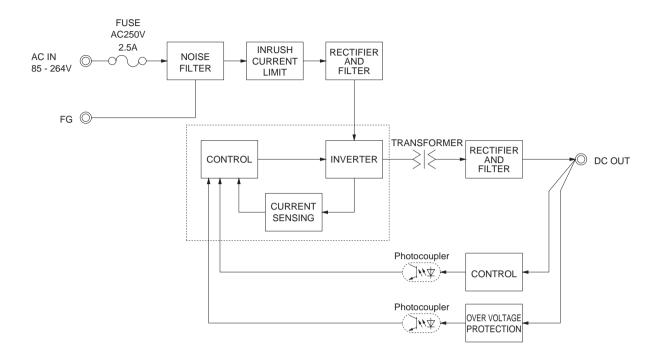
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MODEL	PBA15F-3R3	PBA15F-5	PBA15F-9	PBA15F-12	PBA15F-15	PBA15F-24	PBA15F-48
MAX OUTPUT WATTAGE[W]	9.9	15	15.3	15.6	15	16.8	16.8
DC OUTPUT	3.3V 3A	5V 3A	9V 1.7A	12V 1.3A	15V 1A	24V 0.7A	48V 0.35A

	MODEL		PBA15F-3R3	PBA15F-5	PBA15F-9	PBA15F-12	PBA15F-15	PBA15F-24	PBA15F-48		
	VOLTAGE[V]		T		•	Please refer to the	ne instruction ma	anual 2.1 Input vo	ltage *3)		
	CURRENT[A]	ACIN 100V	0.30typ (Io=100%)	0.4typ (lo=100%	6)						
	CORKENT[A]	ACIN 200V	0.15typ (lo=100%)	0.2typ (lo=100%	6)						
	FREQUENCY[Hz]		50/60 (47 - 440) or DC								
NPUT	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 (Io=100%) (At cold start)							
	INKUSH CUKKENI[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 IE	C60950-1,DENA	N)			
	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		
	DIDDI ElmVn ni	0 to +50°C *1	80max	80max	120max	120max	120max	120max	150max		
KIPPLELIIIV	RIPPLE[mVp-p]	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max		
	DIDDLE NOISE	0 to +50°C *1	120max	120max	150max	150max	150max	150max	250max		
DUTPUT	RIPPLE NOISE[mVp-p]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max		
	I TEMPERATURE REGULATION(mV) I	0 to +50℃	50max	50max	90max	120max	150max	240max	480max		
IEM		-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, Io=100%) *Start-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage								
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)								
	OUTPUT VOLTAGE ADJUSTMENT	T RANGE[V]	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 - 49.92		
	OVERCURRENT PROT	ECTION	Works over 105	% of rated curre	nt and recovers a	automatically					
PROTECTION		[V]NOIT	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		
CIRCUIT AND OTHERS	OPERATING INDICA	TION	LED (Green)								
	REMOTE ON/OFF		None								
	INPUT-OUTPUT		AC3,000V 1min	ute, Cutoff currer	nt = 10mA, DC50	00V 50MΩmin (<i>A</i>	At Room Tempera	ature)			
SOLATION	INPUT-FG		AC2,000V 1min	ute, Cutoff currer	nt = 10mA, DC50	00V 50MΩmin (<i>A</i>	At Room Tempera	ature)			
	OUTPUT-FG		AC500V 1minut	e, Cutoff current	= 25mA, DC500	V 50MΩmin (At	Room Temperati	ure)			
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +71℃ (R	equired Derating), 20 - 90%RH (I	Non condensing)	3,000m (10,000	feet) max			
NIVIDONIMENT	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20	0 - 90%RH (Non	condensing) 9,0	00m (30,000feet)	max				
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6	m/s² (2G), 3min	utes period, 60m	inutes each alon	g X, Y and Z axi	is			
	IMPACT		196.1m/s ² (20G), 11ms, once ea	ach X, Y and Z a	xis					
AFETY AND	AGENCY APPROVALS (At only	y AC input)	UL60950-1, C-U	JL(CSA60950-1),	EN60950-1, EN	50178 Complies	with DEN-AN				
NOISE	CONDUCTED NOISE		Complies with F	CC Part15 class	B, VCCI-B, CISF	PR22-B, EN5501	1-B, EN55022-B				
REGULATIONS	HARMONIC ATTENU	JATOR	Complies with I	EC61000-3-2 (No	ot built-in to activ	e filter *4) *7					
OTUEDO.	CASE SIZE/WEIGHT		31×78×85mm	[1.22×3.07×3.0	35 inches] (witho	ut terminal block)	(W×H×D) / 2	00g max (with co	ver : 235g max		
OTHERS	COOLING METHOD		Convection	-	•						

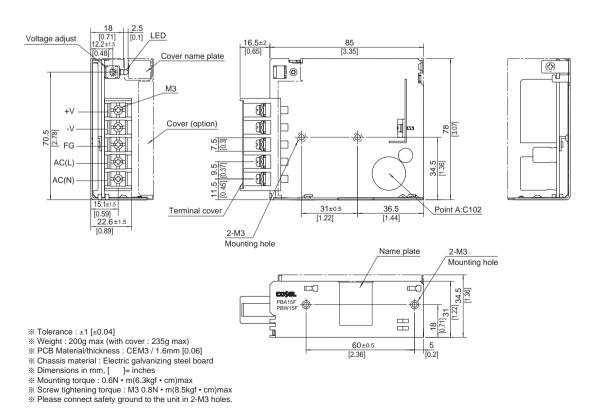
- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- \$4 When two or more units are used,they may not comply with the harmonic attenuator. Please contact us for details.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



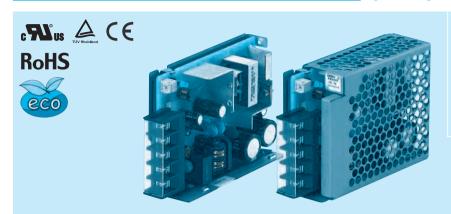
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PRA30E-3P3 PRA30E-5 PRA30E-0 PRA30E-12 PRA30E-15 PRA30E-24 PRA30E-48

①Series name ②Single output

(3)Output wattage



Recommended EMI/EMC Filter NAC-06-472

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

*The EMI/EMC Filter is recommended to connect with several devices.

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-

	optional

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

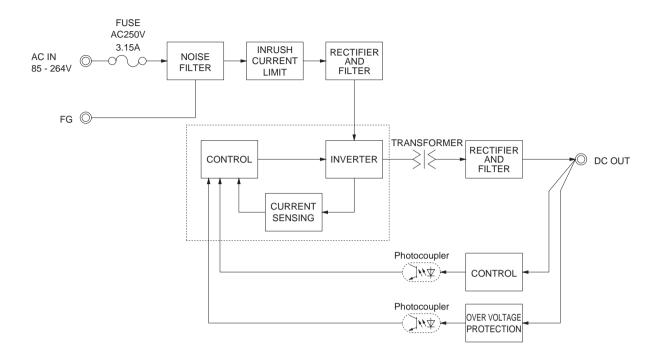
SPECIFICATIONS

MODEL

	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 the	ne instruction ma	nual 2.1 Input vo	ltage *3)			
	CURRENTIAL	ACIN 100V	0.50typ (lo=100%)	0.70typ (lo=100	%)				-			
	CURRENT[A]	ACIN 200V	0.30typ (lo=100%)	0.40typ (lo=100	%)							
	FREQUENCY[Hz]		50/60 (47 - 440)	or DC								
<u> </u>			68typ	74typ	75typ	76typ	78typ	78typ	79typ			
	EFFICIENCY[%]	ACIN 200V	69typ	77typ	77typ	78typ	81typ	81typ	81typ			
	INDUCU 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 (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)									
	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[I	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			
	KIPPLE[IIIVP-P]	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max			
		0 to +50°C *1	120max	120max	150max	150max	150max	150max	250max			
OUTPUT		-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max			
		0 to +50℃	50max	50max	90max	120max	150max	240max	480max			
	TEMPERATURE REGULATION[mV]	-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-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage.									
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)									
	OUTPUT VOLTAGE ADJUSTMENT	FRANGE[V]	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 - 49.92			
	OVERCURRENT PROT	ECTION	Works over 105	% of rated curre	nt and recovers a	utomatically						
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	58.0 - 65.0			
OTHERS	OPERATING INDICA	TION	LED (Green)									
	REMOTE ON/OFF		None									
	INPUT-OUTPUT		AC3,000V 1min	ute, Cutoff currer	nt = 10mA, DC50	$00V$ $50M$ Ω min (A	t Room Tempera	ature)				
	INPUT-FG				nt = 10mA, DC50							
	OUTPUT-FG				= 25mA, DC500							
	OPERATING TEMP.,HUMID.AND	ALTITUDE		<u> </u>), 20 - 90%RH (N			eet) max				
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	_		condensing) 9,00							
LIVINGIAMENT	VIBRATION				utes period, 60m		g X, Y and Z axis	S				
	IMPACT		· · · · · · · · · · · · · · · · · · ·		ich X, Y and Z ax							
OALLII AND	AGENCY APPROVALS (At only	•			EN60950-1, EN							
NOISE	CONDUCTED NOISE				B, VCCI-B, CISP		I-B, EN55022-B					
REGULATIONS	HARMONIC ATTENU				ot built-in to active	,						
OTHERS	CASE SIZE/WEIGHT			n [1.22×3.07×4	.06 inches] (without	out terminal block	() (W × H × D) / 2	70g max (with co	over : 310g max)			
	COOLING METHOD		Convection									

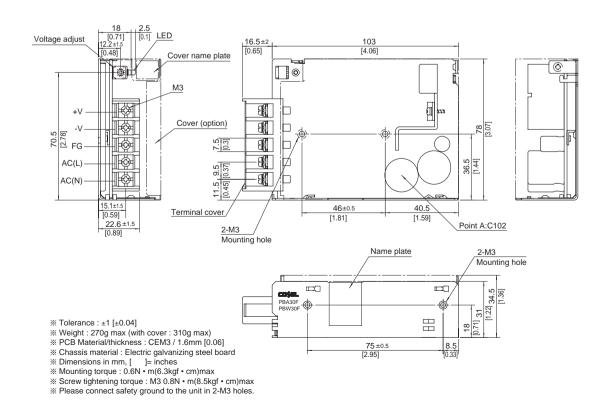
- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- *3 Derating is required.
- *4 When two or more units are used, they may not comply with the harmonic attenuator.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



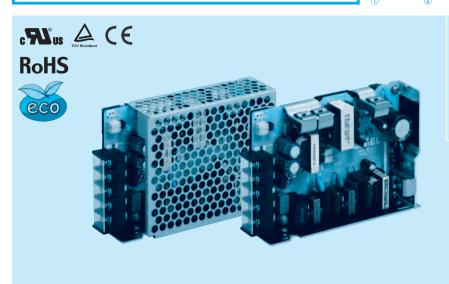
External view

* 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.



PBA50F

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Recommended EMI/EMC Filter NAC-06-472



High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

- ①Series name ②Single output
- (3)Output wattage 4 Universal input
- (§) Output 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-

Co			

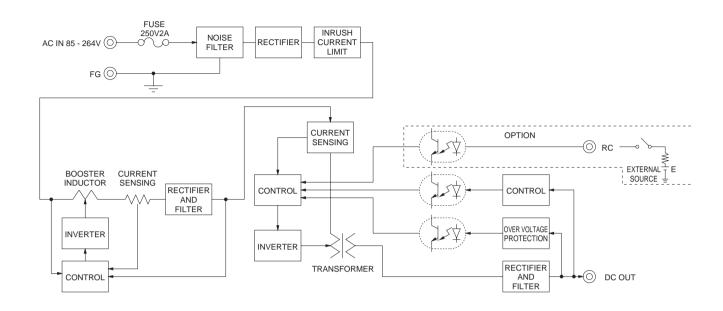
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MODEL	PBA50F-3R3	PBA50F-5	PBA50F-9	PBA50F-12	PBA50F-15	PBA50F-24	PBA50F-36	PBA50F-48
MAX OUTPUT WATTAGE[W]	33	50	50.4	51.6	52.5	52.8	50.4	52.8
DC OUTPUT	3.3V 10A	5V 10A	9V 5.6A	12V 4.3A	15V 3.5A	24V 2.2A	36V 1.4A	48V 1.1A

	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 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage $*4$)										
	CURRENT[A]	ACIN 100V	0.5typ	0.7typ									
	CORRENT[A]	ACIN 200V	0.3typ										
	FREQUENCY[Hz]		50/60 (47 - 63)										
	EEEICIENCVII/1	ACIN 100V	75typ	80typ	79typ	80typ	81typ	82typ	83typ	83typ			
INPUT	EFFICIENCY[%]	ACIN 200V	76typ	82typ	81typ	82typ	83typ	84typ	85typ	85typ			
	POWER FACTOR(Io=100%)	ACIN 100V	0.98typ	0.99typ									
	POWER FACTOR(IO=100%)	ACIN 200V	0.87typ	.87typ 0.93typ									
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%	(At cold start)									
	INKUSH CUKKENI[A]	ACIN 200V	30typ (Io=100%	(At cold start)									
	LEAKAGE CURRENT[r	nA]	0.4/0.75max (A	CIN 100V/240V	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[mV	/]	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			
	кігесеціімр-рі	-10 - 0°C *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		-10 - 0°C * 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 100V, Io=100%)										
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=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	35.00 - 37.44	48.00 - 49.92			
	OVERCURRENT PROT				ent and recovers	automatically							
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	43.0 - 50.0	58.0 - 65.0			
OTHERS	OPERATING INDICATION	ON	LED (Green)										
	REMOTE ON/OFF		Optional (Required external power source)										
	INPUT-OUTPUT · RC	*3	Theoreta Timinater Caronic - Territor December Contagnini (it internation)										
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)										
	OUTPUT · RC-FG	*3	7100007 Trimitato, Catch Carrolla - 10011111, Decour Comagnini (At 1100111 Temperataro)										
	OPERATING TEMP.,HUMID.AND												
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE				000m (30,000fee	,						
LittintoniiiLiti	VIBRATION					minutes each ald	ong X, Y and Z a	axis					
	IMPACT				ach X, Y and Z								
SALLII AND	AGENCY APPROVALS (At only	AC input)				N50178 Complie							
NOISE REGULATIONS	CONDUCTED NOISE					PR22-B, EN550	11-B, EN55022-	В					
REGULATIONS	HARMONIC ATTENUAT	OR		EC61000-3-2 *									
OTHERS	CASE SIZE/WEIGHT			m [1.22 × 3.23 ×	4.72 inches] (with	nout terminal blo	ck) (W×H×D) /	280g max (witl	h cover : 325g m	ax)			
	COOLING METHOD		Convection										

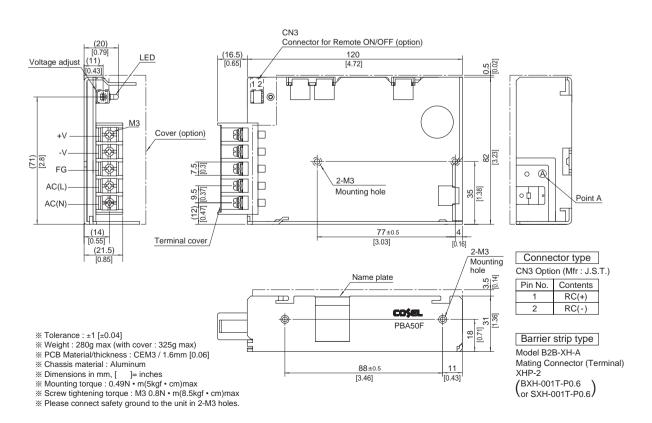
- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and
- *4 Derating is required.

- *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.



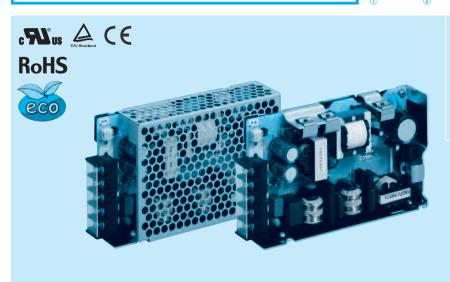
External view

** 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.



PBA75F

75 F





High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

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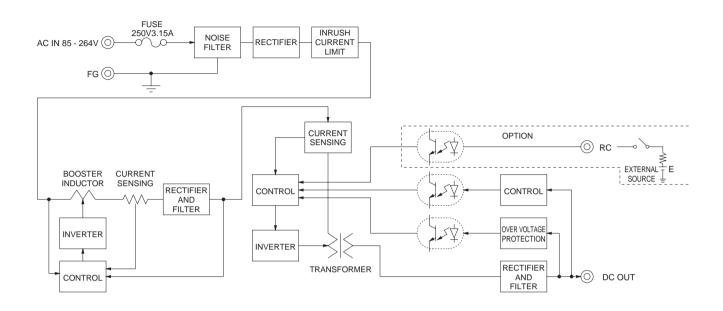
MODEL	PBA75F-3R3	PBA75F-5	PBA75F-9	PBA75F-12	PBA75F-15	PBA75F-24	PBA75F-36	PBA75F-48
MAX OUTPUT WATTAGE[W]	49.5	75	75.6	75.6	75	76.8	75.6	76.8
DC OUTPUT	3.3V 15A	5V 15A	9V 8.4A	12V 6.3A	15V 5A	24V 3.2A	36V 2.1A	48V 1.6A

N	MODEL		PBA75F-3R3	PBA75F-5	PBA75F-9	PBA75F-12	PBA75F-15	PBA75F-24	PBA75F-36	PBA75F-48			
V	/OLTAGE[V]		AC85 - 264 1 φ	AC85 - 264 1 ϕ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *4)									
	CURRENT[A]	ACIN 100V	0.7typ	1.0typ									
[CORRENT[A]	ACIN 200V	0.4typ										
F	REQUENCY[Hz]		50/60 (47 - 63)										
_	EFFICIENCY[%]	ACIN 100V	77typ	81typ	80typ	81typ	82typ	83typ	84typ	84typ			
INPUT 5	FFICIENCI[%]	ACIN 200V	78typ	83typ	82typ	83typ	84typ	85typ	86typ	86typ			
	OWER FACTOR(Io=100%)	ACIN 100V	0.98typ	0.99typ									
	, , , , , , , , , , , , , , , , , , , ,	ACIN 200V		0.93typ									
			15typ (Io=100%) (At cold start)										
["	INICOSTI CONNENT[A]	ACIN 200V	71 '	0typ (Io=100%) (At cold start)									
	EAKAGE CURRENT[n	nA]	0.4/0.75max (ACIN 100V/240V 60Hz, lo=100%, According to IEC60950-1,DENAN)										
V	/OLTAGE[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			
	INE REGULATION[mV		20max	20max	36max	48max	60max	96max	144max	192max			
L	OAD 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			
Ľ.	KIPPLE[IIIVP-P]	-10 - 0℃ *1	140max	140max	160max	160max	160max	160max	200max	200max			
R	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	150max	250max	250max			
OUTPUT L'		-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	300max			
_T	TEMPERATURE REGULATION[mV]			50max	90max	120max	150max	240max	360max	480max			
L		-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			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 PROTI			% of rated curre									
CIRCUIT AND	OVERVOLTAGE PROTECT		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 C	PERATING INDICATION	ON	LED (Green)										
	REMOTE ON/OFF		Optional (Required external power source)										
	NPUT-OUTPUT · RC	*3											
	NPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)										
	OUTPUT · RC-FG	*3	7100007 Trimitato, Outon Curroni - Tooms (Doodo Comagnimi (N Toom Tomporator)										
	PERATING TEMP.,HUMID.AND												
	TORAGE TEMP.,HUMID.AND	ALIIIUDE	-20 to +75°C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis										
_	/IBRATION						ong X, Y and Z a	axis					
	MPACT	10 in		3), 11ms, once e			id- DEN AN						
	GENCY APPROVALS (At only	AC Input)				N50178 Complie		D					
	CONDUCTED NOISE	·0.D				PR22-B, EN550	11-B, EN55022-	B					
	HARMONIC ATTENUAT	OK		EC61000-3-2 *			\ /\\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(050 /	100	- \			
	CASE SIZE/WEIGHT			m [1.26 X 3.23 X	b.31 inches] (wit	nout terminal blo	CK) (WXHXD) /	350g max (wit	n cover : 400g m	ax)			
0	COOLING METHOD		Convection										

- *1 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.

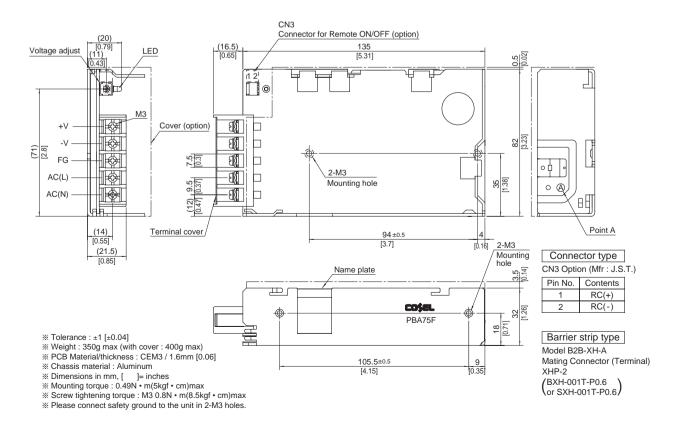
 *3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and
- *4 Derating is required.

- *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.



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PBA100F

100



High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

- ①Series name ②Single output
- (3)Output wattage
- 4 Universal input
- (§) Output 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-

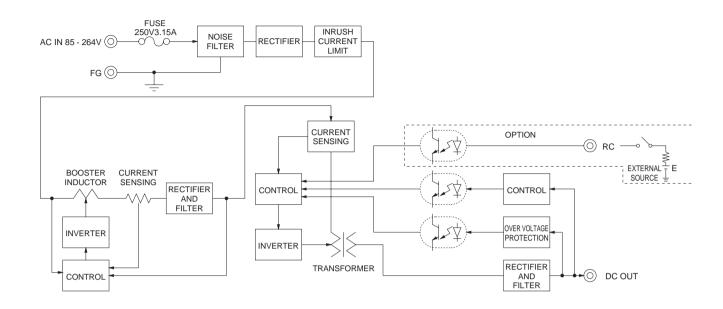


MODEL	PBA100F-3R3	PBA100F-5	PBA100F-9	PBA100F-12	PBA100F-15	PBA100F-24	PBA100F-36	PBA100F-48
MAX OUTPUT WATTAGE[W]	66	100	94.5	102	105	108	100.8	100.8
DC OUTPUT	3.3V 20A	5V 20A	9V 10.5A	12V 8.5A	15V 7A	24V 4.5A	36V 2.8A	48V 2.1A

	MODEL		PBA100F-3R3	PBA100F-5	PBA100F-9	PBA100F-12	PBA100F-15	PBA100F-24	PBA100F-36	PBA100F-48			
	VOLTAGE[V]		AC85 - 264 1 φ	or DC120 - 370	0 (AC50 or DC7	Please refer to	the instruction r	nanual 2.1 Input	voltage *4)				
	CUDDENTIAL	ACIN 100V	0.9typ	1.3typ									
	CURRENT[A]	ACIN 200V	0.5typ	0.7typ									
	FREQUENCY[Hz]		50/60 (47 - 63)										
	EEEIGIENGVI0/1	ACIN 100V	77typ	82typ	80typ	81typ	83typ	84typ	84typ	84typ			
INPUT	EFFICIENCY[%]	ACIN 200V	79typ	84typ	82typ	83typ	86typ	86typ	86typ	86typ			
	POWER FACTOR(Io=100%)	ACIN 100V	0.98typ	0.99typ									
	POWER FACTOR(IO=100%)	ACIN 200V	0.87typ	0.93typ									
	INRUSH CURRENT[A]			20typ (Io=100%) (At cold start)									
	INKUSH CUKKENI[A]	ACIN 200V	40typ (lo=100%	(At cold start)									
	LEAKAGE CURRENT[r	nA]	0.4/0.75max (A	CIN 100V/240V	60Hz, lo=100%	According to IE	C60950-1,DENA	N)					
	VOLTAGE[V]		3.3	5	9	12	15	24	36	48			
	CURRENT[A]		20	20	10.5	8.5	7	4.5	2.8	2.1			
	LINE REGULATION[m\	/]	20max	20max	36max	48max	60max	96max	144max	192max			
	LOAD REGULATION[m	V]	40max	40max	100max	100max	120max	150max	240max	240max			
	RIPPLE[mVp-p]	0 to +50°C *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°C *1	120max	120max	150max	150max	150max	150max	250max	250max			
OUTPUT		-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 100V, Io=100%)										
	HOLD-UP TIME[ms]		20typ (ACIN 10										
	OUTPUT VOLTAGE ADJUSTMENT			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 PROT	ECTION			ent and recovers								
PROTECTION	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	43.0 - 50.0	58.0 - 65.0			
CIRCUIT AND OTHERS	OPERATING INDICATION	ON	LED (Green)										
UTHERS	REMOTE SENSING		Optional (Only -3R3, -5 Option -K)										
	REMOTE ON/OFF		Optional (Required external power source)										
	INPUT-OUTPUT · RC	*3	7 Too Good Timinate, Caten Carrett - Torrit, Decoot Contagnini (7th Toom Tomporatary)										
ISOLATION	INPUT-FG		AC2,000V 1minute. Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)										
	OUTPUT · RC-FG	*3											
	OPERATING TEMP.,HUMID.AND							Outeet) max					
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALIIIUDE				000m (30,000fee							
	VIBRATION					minutes each ald	ong X, Y and Z a	axis					
	IMPACT	. 10 :1			ach X, Y and Z		id- DEN AN						
SAFETY AND	AGENCY APPROVALS (At only	/ AC input)				N50178 Complie		D					
NOISE REGULATIONS	CONDUCTED NOISE	TO D				PR22-B, EN550	11-B, EN55022-	·R					
	TIARMONIO ATTENOA	UK		EC61000-3-2 *		hand damed and 111	-1-) (\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/ 440= ==== / ''	h	\			
OTHERS	CASE SIZE/WEIGHT			m [1.26 X 3.66 X	5.79 inchesj (wit	nout terminal blo	CK) (WXHXD)	/ 440g max (wit	n cover : 500g m	ax)			
	COOLING METHOD		Convection										

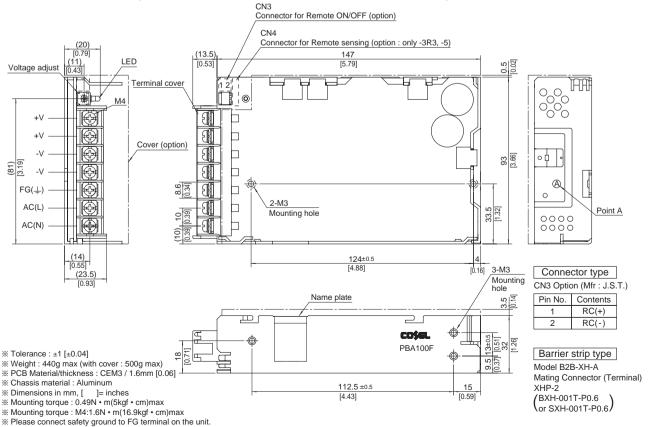
- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and
- *4 Derating is required.

- *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,V and K is different from standard model and refer to 7 Option of instruction manual for details.



PBA150F

150



Recommended EMI/EMC Filter NAC-06-472

High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

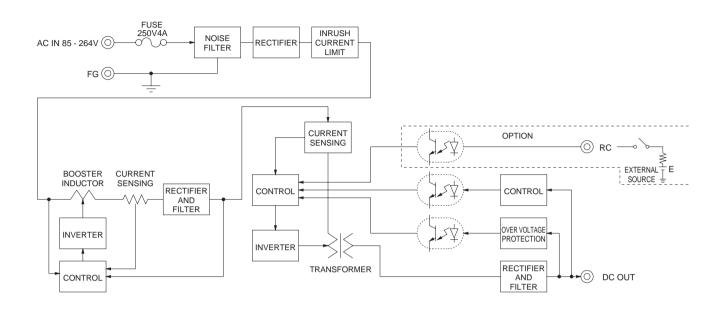
- ①Series name ②Single output
- (3)Output wattage 4 Universal input
- ⑤Output voltage
- ® Optional *5
 C :with Coating
 - G:Low leakage current (0.15mA max / ACIN 240V)
 - E:Low leakage current and EMI class A (0.5mA max / ACIN 240V)
 - T :Vertical terminal block
 - J :Connector type (Only -12,-15,-24,-36,-48)
 - 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-

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			
١	VOLTAGE[V]		AC85 - 264 1 ¢	or DC120 - 37	0 (AC50 or DC7	Please refer to	the instruction r	nanual 2.1 Input	voltage *4)				
	CURRENT[A]	ACIN 100V											
	CORRENT[A]	ACIN 200V	0.7typ	1.0typ									
F	FREQUENCY[Hz]		50/60 (47 - 63)										
	EEEICIENCVII/1	ACIN 100V	80typ	83typ	82typ	83typ	84typ	85typ	85typ	85typ			
NPUT '	EFFICIENCY[%]	ACIN 200V	82typ	86typ	85typ	86typ	87typ	88typ	88typ	88typ			
	POWER FACTOR(Io=100%)	ACIN 100V	0.98typ										
Ľ	POWER FACTOR(IO=100%)	ACIN 200V	0.87typ										
	NRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%	0typ (Io=100%) (At cold start)									
'	NKUSH CUKKENI[A]	ACIN 200V	40typ (lo=100%	Otyp (Io=100%) (At cold start)									
L	LEAKAGE CURRENT[r	nA]	0.4/0.75max (A	CIN 100V/240V	60Hz, lo=100%	According to IE	C60950-1,DENA	N)					
١	VOLTAGE[V]		3.3	5	9	12	15	24	36	48			
(CURRENT[A]		30	30	16.7	13	10	6.5	4.3	3.3			
ī	LINE REGULATION[m\	/]	20max	20max	36max	48max	60max	96max	144max	192max			
I	LOAD REGULATION[m	ıV]	40max	40max	100max	100max	120max	150max	240max	240max			
Γ,	DIDDI Elm\/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			
Γ.	DIDDLE NOICEIV1	0 to +50°C *1	120max	120max	150max	150max	150max	150max	250max	250max			
OUTPUT '	RIPPLE NOISE[mVp-p]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	300max			
Γ,	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			
1	DRIFT[mV]	*2	20max	20max	36max	48max	60max	96max	144max	192max			
5	START-UP TIME[ms]		350typ(ACIN 100V, lo=100%)										
ŀ	HOLD-UP TIME[ms]		20typ (ACIN 10	0V, Io=100%)									
C	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	36.00 - 37.44	48.00 - 49.92			
(OVERCURRENT PROT	ECTION	Works over 105	% of rated curre	ent and recovers	automatically							
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			
	OPERATING INDICATION	ON	LED (Green)										
OTHERS F	REMOTE SENSING		Optional (Only -3R3, -5 Option -K)										
F	REMOTE ON/OFF		Optional (Required external power source)										
<u> </u>	NPUT-OUTPUT · RC	*3	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)										
SOLATION L	NPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)										
	OUTPUT · RC-FG	*3			t = 100mA, DC5								
	OPERATING TEMP.,HUMID.AND		2 (1 1 1 1 3), 1 1 1 1 1 3)										
NVIDONIMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	, , , , , , , , , , , , , , , , , , ,										
1	VIBRATION				nutes period, 60		ong X, Y and Z a	axis					
	IMPACT				each X, Y and Z								
SAFETY AND	AGENCY APPROVALS (At only	y AC input)), EN60950-1, E								
NOISE	CONDUCTED NOISE				sB, VCCI-B, CIS	SPR22-B, EN550	11-B, EN55022-	В					
	HARMONIC ATTENUAT	ror		EC61000-3-2 *									
DIHERS +	CASE SIZE/WEIGHT			m [1.34 × 3.66 ×	6.61 inches] (wit	hout terminal blo	ock) (W×H×D)	560g max (with	n cover : 630g m	ax)			
	COOLING METHOD		Convection										

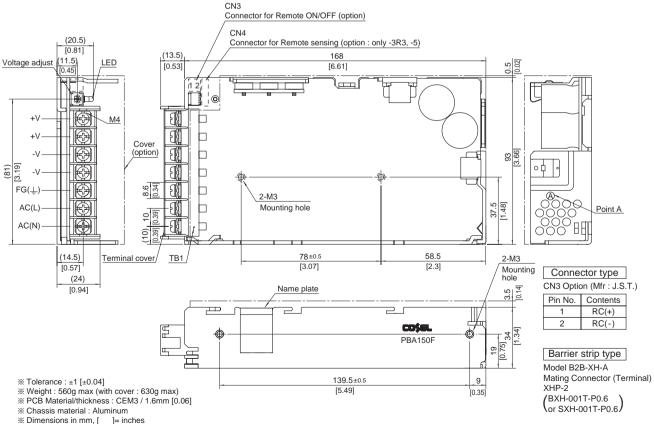
- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and
- *4 Derating is required.

- *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,V and K is different from standard model and refer to 7 Option of instruction manual for details.



- ** Dimensions in mm, []= inches
 ** Mounting torque : 0.49N m(5kgf cm)max
- Mounting torque: M4:1.6N m(16.9kgf cm)max
 Keep drawing current per pin below 20A for TB1.

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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