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PBA300F

A 300



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

1) Series name2) Single output3) Output wattage

- ©Optional *5
 C :with Coating
 G :Low leakage current
 U :Operation stop voltage
 - is set at a lower value
 - F3:Reverse air exhaust
 - type F4:Low speed fan
 - N1 :with DIN rail

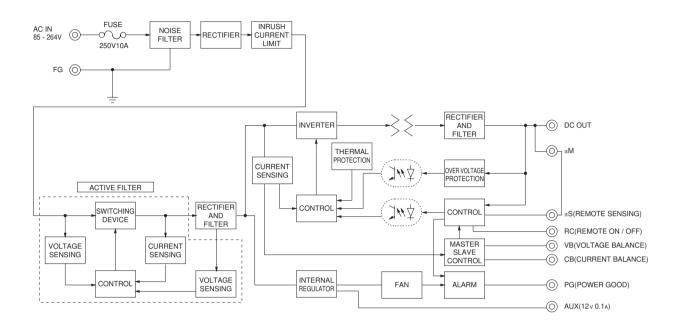
Refer to instruction manual

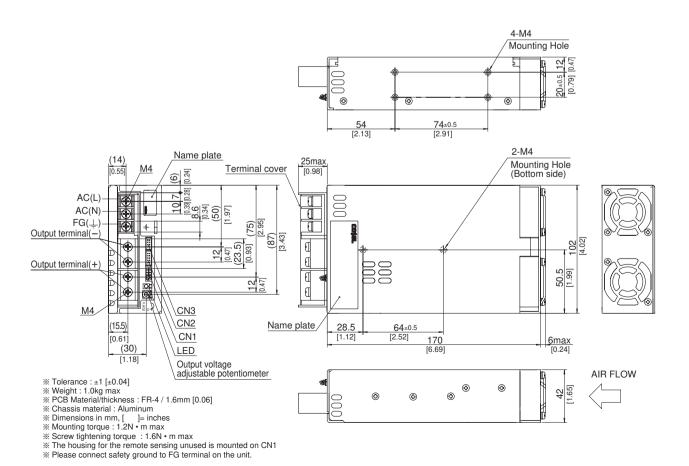
MODEL		PBA300F-3R3	PBA300F-5	PBA300F-7R5	PBA300F-12	PBA300F-15	PBA300F-24	PBA300F-36	PBA300F-48
MAX OUTPUT WATTAGE[W]		198	300	300	324	330	336	324	336
DO CUITDUT	ACIN 100V	3.3V 60A	5V 60A	7.5V 40A	12V 27A	15V 22A	24V 14A	36V 9A	48V 7A
DC OUTPUT	ACIN 200V *3	3.3V 60A	5V 60A	7.5V 40A	12V 27A	15V 22A	24V 14(16.5)A	36V 9A	48V 7A

	MODEL		PBA300F-3R3	PBA300F-5	PBA300F-7R5	PBA300F-12	PBA300F-15	PBA300F-24	PBA300F-36	PBA300F-48
	VOLTAGE[V]		AC85 - 264 1 φ	or DC120 - 350	0 (AC50 or DC70	Please refer to	the instruction n	nanual 7. option	* 4)	
	CURRENT[A]	ACIN 100V	3typ	4.1typ						
	CORNENTIAI	ACIN 200V	1.6typ	2typ						
	FREQUENCY[Hz]		50/60 (47 - 63)							
INPUT	EFFICIENCY[%]	ACIN 100V		74typ	76typ	78typ	78typ	79typ	81typ	79typ
	EFFICIENCI[/6]	ACIN 200V	71typ	77typ	79typ	81typ	81typ	82typ	84typ	82typ
	POWER FACTOR	ACIN 100V	0.98typ (lo=100)%)						
	POWER FACTOR	ACIN 200V	0.95typ (lo=100)%)						
	INRUSH CURRENT[A]			0typ (Io=100%) (Primary inrush current /Secondary inrush current) (More then 3 sec. to re-start)						
	INNUSTI CUNNENT[A]	ACIN 200V		Otyp (Io=100%) (Primary inrush current /Secondary inrush current) (More then 3 sec. to re-start)						
	LEAKAGE CURRENT[r	nA]	0.45/0.75max (ACIN 100V/240\	√ 60Hz, lo=100%	According to I	EC60950-1,DEN	AN)		
	VOLTAGE[V]		3.3	5	7.5	12	15	24	36	48
	CURRENT[A]	ACIN 100V	60	60	40	27	22	14	9	7
	CURNENTIAJ	ACIN 200V *3	60	60	40	27	22	14(16.5)	9	7
	LINE REGULATION[m\	/]	20max	20max	36max	48max	60max	96max	144max	192max
	LOAD REGULATION[m	ıV]	40max	40max	60max	100max	120max	150max	150max	300max
	DIDDI ElmVm ml	0 to +50°C *1	80max	80max	120max	120max	120max	120max	150max	150max
	RIPPLE[mVp-p]	-20 - 0℃ *1	140max	140max	160max	160max	160max	160max	160max	400max
OUTPUT RIPPLE NOISEIM	DIDDLE NOICE(m//m m)	0 to +50°C *1	120max	120max	150max	150max	150max	150max	200max	200max
OUIPUI	RIPPLE NOISE[mVp-p]	-20 - 0℃ *1	160max	160max	180max	180max	180max	180max	240max	500max
	TEMPERATURE REGULATION[mV]	0 to +50°C	40max	50max	75max	120max	150max	240max	360max	480max
		-20 to +50℃	60max	75max	120max	180max	180max	290max	440max	600max
	DRIFT[mV]	*2	12max	20max	30max	48max	60max	96max	144max	192max
	START-UP TIME[ms]		300typ(ACIN 100	/200V, lo=100%)	*Start-up time is	500ms typ for less	than 1minute of	applying input aga	in from turning off	the input voltage.
	HOLD-UP TIME[ms]			0/200V, lo=100°						
	OUTPUT VOLTAGE ADJUSTMENT	FRANGE[V]	2.64 - 3.96	3.96 - 6.00	5.25 - 8.25	8.25 - 13.20	10.50 - 16.50	16.50 - 26.40	25.20 - 39.60	38.40 - 56.00
	OUTPUT VOLTAGE SET	TING[V]	3.30 - 3.40	5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92
	OVERCURRENT PROT	ECTION		5% of rated curre	ent or 101% of p	eak current and	recovers automa	atically		
PROTECTION	OVERVOLTAGE PROTEC	TION[V]	4.3 - 6.3	6.5 - 8.0	9.0 - 11.6	14.4 - 18.6	18.0 - 23.3	28.8 - 37.2	43.2 - 54.0	57.6 - 80.0
CIRCUIT AND	OPERATING INDICATION	NC	LED (Green)							
OTHERS	REMOTE SENSING		Provided							
	REMOTE ON/OFF		Provided							
	INPUT-OUTPUT · RC				ent = 10mA, DC5					
ISOLATION	INPUT-FG				ent = 10mA, DC5					
IOOLATION	OUTPUT · RC · AUX-F0	G			t = 100mA, DC5					
	OUTPUT-RC · AUX				t = 100mA, DC5					
	OPERATING TEMP.,HUMID.AND	ALTITUDE			g), 20 - 90%RH			00feet) max		
ENVIRONMENT	STORAGE TEMP.;HUMID.AND	ALTITUDE			n condensing) 9,					
LITTIONIENT	VIBRATION				nutes period, 60		ong X, Y and Z a	axis		
	IMPACT				each X, Y and Z					
	AGENCY APPROVALS (At only	/ AC input)), EN60950-1, EI					
NOISE	CONDUCTED NOISE				sB, VCCI-B, CIS	PR22-B, EN550	11-B, EN55022-	В		
REGULATIONS	HANWONIC ATTENDA	TOR		EC61000-3-2 *						
OTHERS	CASE SIZE/WEIGHT				< 6.69 inches] (wi	ithout terminal b	lock and screw)	$(W \times H \times D)$ /1.0	kg max	
UTILITO	COOLING METHOD		Forced cooling	(internal fan)						

- 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 () means peak current. Peak loading for 10s. And Duty 35% max, refer to Instruction manual in detail.
- *4 Derating is required.Consult us for details.

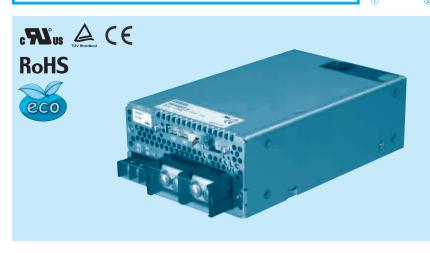
- *5 Please contact us about safety approvals for the model with option.
- *6 Please contact us about class C.
- A sound may occur from power supply at pulse loading.





PBA600F

600



Recommended EMI/EMC Filter NAC-16-472

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

- 1) Series name2) Single output3) Output wattage 4 Universal input
- ⑤Output voltage
- ©Optional *6
 C :with Coating
 G :Low leakage current
 U :Operation stop voltage

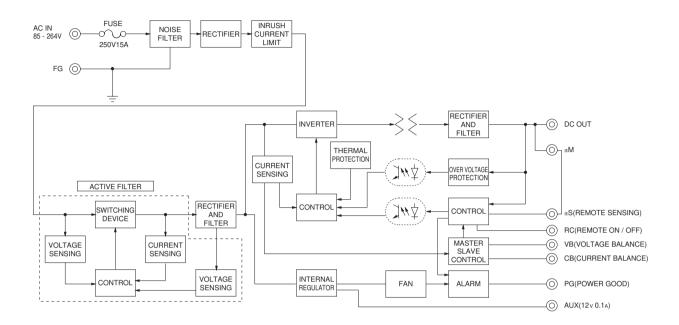
 - is set at a lower value F1:With Long-Life fan F3:Reverse air exhaust
 - type F4:Low speed fan

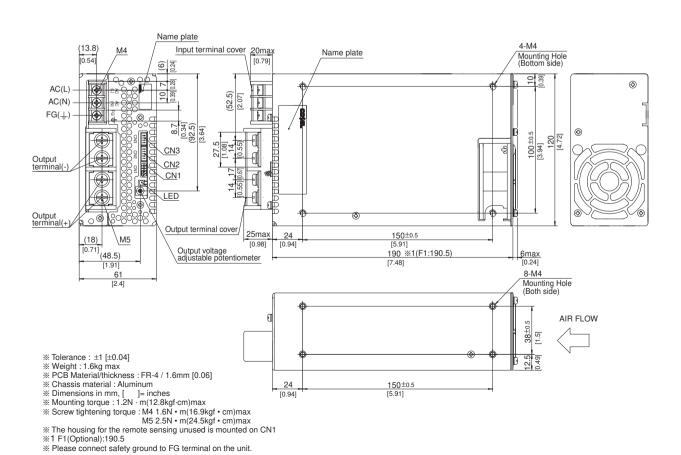
Refer to instruction manual

MODEL		PBA600F-3R3	PBA600F-5	PBA600F-7R5	PBA600F-12	PBA600F-15	PBA600F-24	PBA600F-36	PBA600F-48
MAX OUTPUT WATTAGE[W]		396	600	600	636	645	648	648	624
DO OLITRUIT	ACIN 100V	3.3V 120A	5V 120A	7.5V 80A	12V 53A	15V 43A	24V 27A	36V 18A	48V 13A
DC OUTPUT	ACIN 200V *3	3.3V 120A	5V 120A	7.5V 80A	12V 53A	15V 43A	24V 27(31)A	36V 18A	48V 13A

	MODEL		PBA600F-3R3	PBA600F-5	PBA600F-7R5	PBA600F-12	PBA600F-15	PBA600F-24	PBA600F-36	PBA600F-48	
	VOLTAGE[V]		AC85 - 264 1 φ	or DC120 - 350	0 (AC50 or DC70	Please refer to	the instruction n	nanual 7. option	* 5)		
	CURRENTIAL	ACIN 100V		8.2typ							
	CORNENT[A]	ACIN 200V		4.1typ							
	FREQUENCY[Hz]		50/60 (47 - 63)								
INPUT	EFFICIENCY[%]	ACIN 100V	70typ	75typ	76typ	79typ	79typ	81typ	82typ	81typ	
	EFFICIENCT[%]	ACIN 200V	72typ	77typ	79typ	82typ	82typ	84typ	84typ	83typ	
	DOWED FACTOR	ACIN 100V	0.98typ (lo=100								
	POWER FACTOR	ACIN 200V	0.95typ (lo=100)%)							
	INRUSH CURRENT[A]	ACIN 100V	20/40typ (Io=10	00%) (Primary in	rush current /Se	condary inrush o	urrent) (More th	an 3 sec. to re-s	start)		
	INNUSTI CONNENT[A]	ACIN 200V	40/40typ (Io=10	00%) (Primary in	rush current /Se	condary inrush o	current) (More th	an 3 sec. to re-s	start)		
	LEAKAGE CURRENT[r	nA]	0.45/0.75max (ACIN 100V/240\	/ 60Hz, lo=100%	According to I	EC60950-1, DEN	NAN)			
	VOLTAGE[V]		3.3	5	7.5	12	15	24	36	48	
	CURRENTIAL	ACIN 100V	120	120	80	53	43	27	18	13	
	CURRENT[A]	ACIN 200V *3	120	120	80	53	43	27(31)	18	13	
	LINE REGULATION[m\	/]	20max	20max	36max	48max	60max	96max	144max	192max	
	LOAD REGULATION[m	ıV]	40max	40max	60max	100max	120max	150max	150max	300max	
	RIPPLE[mVp-p]	0 to +50°C * 1	80max	80max	120max	120max	120max	120max	150max	150max	
	RIPPLE[IIIVP-P]	-20 - 0°C *1	140max	140max	160max	160max	160max	160max	160max	400max	
OUTBUT	DUTPUT RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	150max	200max	200max	
OUIFUI		-20 - 0°C *1	160max	160max	180max	180max	180max	180max	240max	500max	
TEA	TEMPERATURE REGULATION[mV]	0 to +50°C	40max	50max	75max	120max	150max	240max	360max	480max	
	TEMPERATURE REGULATION[IIIV]	-20 to +50°C	60max	75max	120max	180max	180max	290max	440max	600max	
	DRIFT[mV]	*2	12max	20max	30max	48max	60max	96max	144max	192max	
	START-UP TIME[ms]				*Start-up time is	500ms typ for less	than 1minute of	applying input aga	in from turning off	the input voltage.	
	HOLD-UP TIME[ms]			0/200V, lo=100°							
	OUTPUT VOLTAGE ADJUSTMENT		2.64 - 3.96	3.96 - 6.00	5.25 - 8.25	8.25 - 13.20	10.50 - 16.50	16.50 - 26.40	25.20 - 39.60	38.40 - 56.00	
	OUTPUT VOLTAGE SET			5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92	
	OVERCURRENT PROT				ent or 101% of p						
PROTECTION	OVERVOLTAGE PROTECT		Vo+0.66 - 1.32	Vo+1.0 - 2.0	Vo+1.5 - 3.0	Vo+2.4 - 4.8	Vo+3.0 - 6.0	Vo+4.8 - 9.6	Vo+7.2 - 14.4	Vo+4.8 - 12.0	
	OPERATING INDICATION	NC	LED (Green)								
OTHERS	REMOTE SENSING		Provided								
	REMOTE ON/OFF		Provided								
	INPUT-OUTPUT · RC				ent = 10mA, DC5						
ISOLATION	INPUT-FG				ent = 10mA, DC5						
IOOLATION	OUTPUT · RC · AUX-F	G			t = 100mA, DC5						
	OUTPUT-RC · AUX				t = 100mA, DC5						
	OPERATING TEMP.,HUMID.AND				g), 20 - 90%RH			00feet) max			
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE			n condensing) 9,						
	VIBRATION				nutes period, 60		ong X, Y and Z a	axis			
	IMPACT				each X, Y and Z						
OALETT AND	AGENCY APPROVALS (At only	/ AC input)), EN60950-1, E						
NOISE REGULATIONS	CONDUCTED NOISE				sB, VCCI-B, CIS	SPR22-B, EN550	11-B, EN55022-	В			
NEGULATIONS	HANWONIC ATTENDA	OR		EC61000-3-2 *							
OTHERS	CASE SIZE/WEIGHT				7.48 inches] (wit	hout terminal blo	ck and screw) (\	W×H×D) /1.6ko	g max		
J	COOLING METHOD		Forced cooling	(internal fan)							

- 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 () means peak current. Peak loading for 10s. And Duty 35% max, refer to Instruction manual
- *4 Overvoltage protection circuit to follow to output voltage setting. Standard overvoltage protection circuit is please contact us for details.
- *5 Derating is required. Consult us for details.
- *6 Please contact us about safety approvals for the model with option.
- *7 Please contact us about class C.
- A sound may occur from power supply at pulse loading.





PBA1000F

1000



①Series name ②Single output

3 Output wattage 4 Universal input

⑤Output voltage

©Optional *6
 C :with Coating
 G :Low leakage current
 U :Operation stop voltage

is set at a lower value F1:With Long-Life fan F3:Reverse air exhaust

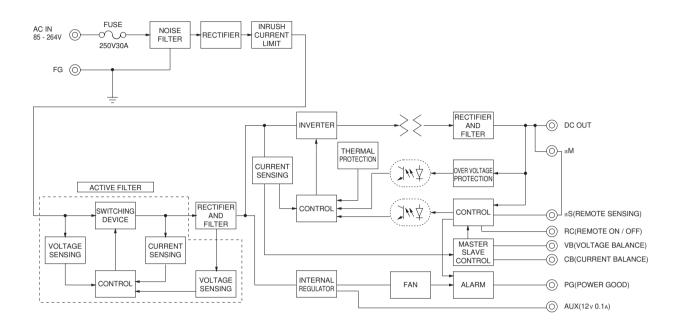
type F4:Low speed fan

Refer to instruction manual

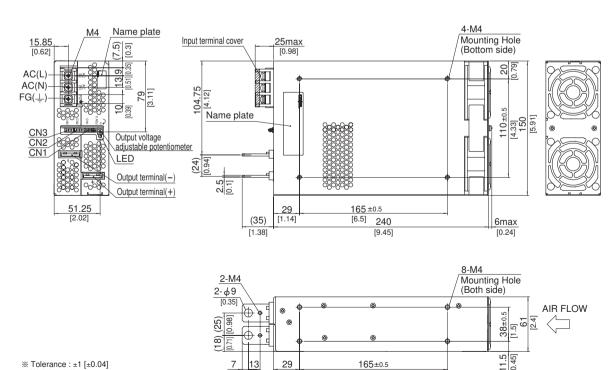
MODEL		PBA1000F-3R3	PBA1000F-5	PBA1000F-7R5	PBA1000F-12	PBA1000F-15	PBA1000F-24	PBA1000F-36	PBA1000F-48
MAX OUTPUT WATTAGE[W]		660	1000	1005	1056	1050	1056	1044	1056
DO CUITRUIT	ACIN 100V	3.3V 200A	5V 200A	7.5V 134A	12V 88A	15V 70A	24V 44A	36V 29A	48V 22A
DC OUTPUT	ACIN 200V *3	3.3V 200A	5V 200A	7.5V 134A	12V 88A	15V 70A	24V 44(51)A	36V 29A	48V 22A

	MODEL		PBA1000F-3R3	PBA1000F-5	PBA1000F-7R5	PBA1000F-12	PBA1000F-15	PBA1000F-24	PBA1000F-36	PBA1000F-48		
	VOLTAGE[V]		AC85 - 264 1 φ	or DC120 - 350	(AC50 or DC70	Please refer to	the instruction n	nanual 7. option	* 5)			
	CURRENT[A]	ACIN 100V	9typ	13typ								
	CURRENT[A]	ACIN 200V										
	FREQUENCY[Hz]		50/60 (47 - 63)									
INPUT	EEEICIENCVI9/1	ACIN 100V	74typ	79typ	80typ	82typ	82typ	84typ	84typ	84typ		
	EFFICIENCY[%]	ACIN 200V	76typ	81typ	83typ	84typ	84typ	86typ	86typ	86typ		
	POWER FACTOR	ACIN 100V	0.98typ (lo=100%)									
	POWER FACTOR	ACIN 200V	0.95typ (lo=100)%)								
	INRUSH CURRENT[A]	ACIN 100V	20/40typ (lo=10	10typ (Io=100%) (Primary inrush current /Secondary inrush current) (More then 10 sec. to re-start)								
	ACIN 200V		40/40typ (lo=100%) (Primary inrush current /Secondary inrush current) (More then 10 sec. to re-start)									
	LEAKAGE CURRENT[r	nA]	0.5/1.0max (AC	IN 100V/240V 6	0Hz, lo=100%, A	According to IEC	60950-1, DENAI	N)				
	VOLTAGE[V]		3.3	5	7.5	12	15	24	36	48		
	CURRENT[A]	ACIN 100V	200	200	134	88	70	44	29	22		
	CURRENT[A]	ACIN 200V *3	200	200	134	88	70	44(51)	29	22		
	LINE REGULATION[m\	/]	20max	20max	36max	48max	60max	96max	144max	192max		
	LOAD REGULATION[m	ıV]	40max	40max	60max	100max	120max	150max	150max	300max		
	DIDDI ElmVm ml	0 to +50°C *1	80max	80max	120max	120max	120max	120max	150max	150max		
OUTPUT RIPPLE NOISE[mVp-p]	-20 - 0℃ *1	140max	140max	160max	160max	160max	160max	160max	400max			
	DIDDLE NOICE[m\/m m]	0 to +50°C *1	120max	120max	150max	150max	150max	150max	200max	200max		
OUTPUT	RIPPLE NOISE[IIIVP-P]	-20 - 0℃ *1	160max	160max	180max	180max	180max	180max	240max	500max		
	TEMPERATURE REGULATION[mV]	0 to +50°C	40max	50max	75max	120max	150max	240max	360max	480max		
	TEMPERATURE REGULATION[IIIV]	-20 to +50℃	60max	75max	120max	180max	180max	290max	440max	600max		
	DRIFT[mV]	*2	12max	20max	30max	48max	60max	96max	144max	192max		
	START-UP TIME[ms]		400typ(ACIN 100	/200V, Io=100%)	*Start-up time is	500ms typ for less	than 1 minute of a	applying input aga	in from turning off	the input voltage.		
	HOLD-UP TIME[ms]			0/200V, lo=1009								
	OUTPUT VOLTAGE ADJUSTMENT		2.64 - 3.96	3.96 - 6.00	5.25 - 8.25	8.25 - 13.20	10.50 - 16.50	16.50 - 26.40	25.20 - 39.60	38.40 - 56.00		
	OUTPUT VOLTAGE SET		3.30 - 3.40	5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92		
	OVERCURRENT PROT				ent or 101% of p							
PROTECTION	OVERVOLTAGE PROTECT		Vo+0.66 - 1.32	Vo+1.0 - 2.0	Vo+1.5 - 3.0	Vo+2.4 - 4.8	Vo+3.0 - 6.0	Vo+4.8 - 9.6	Vo+7.2 - 14.4	Vo+4.8 - 12.0		
	OPERATING INDICATION	NC	LED (Green)									
OTHERS	REMOTE SENSING		Provided									
	REMOTE ON/OFF		Provided									
	INPUT-OUTPUT · RC				ent = 25mA, DC5							
ISOLATION	INPUT-FG				ent = 25mA, DC5							
IOOLATION	OUTPUT · RC · AUX-F	G			t = 100mA, DC5							
	OUTPUT-RC · AUX				t = 100mA, DC5							
	OPERATING TEMP.,HUMID.AND				g), 20 - 90%RH			Ofeet) max				
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE			n condensing) 9,							
LittinoniiiLitti	VIBRATION				nutes period, 60		ing X, Y and Z a	ıxis				
	IMPACT				ach X, Y and Z							
	AGENCY APPROVALS (At only	/ AC input)), EN60950-1, EI							
NOISE	CONDUCTED NOISE				sB, VCCI-B, CIS	PR22-B, EN550	11-B, EN55022-	В				
REGULATIONS	HARMONIC ATTENUAT	ror		EC61000-3-2 *								
OTHERS	CASE SIZE/WEIGHT				9.45 inches] (witl	nout terminal blo	ck and screw) (V	N×H×D) /2.2kç	g max			
	COOLING METHOD		Forced cooling	(internal fan)								

- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN
 - Ripple and ripple noise is measured on measuring board with capacitor of 22 $\mu\,\text{F}$ within 150mm from the output terminal.
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- *3 () means peak current. Peak loading for 10s. And Duty 35% max, refer to Instruction manual in detail.
- *4 Overvoltage protection circuit to follow to output voltage setting. Standard overvoltage protection circuit is please contact us for details.
- *5 Derating is required.Consult us for details.
- *6 Please contact us about safety approvals for the model with option.
- Please contact us about class C.
- A sound may occur from power supply at pulse loading.



External view



[0.28] [0.51]

[1.14]

[6.5]

- % Tolerance : ±1 [±0.04]
 % Weight : 2.2kg max
 % PCB Material/thickness : FR-4 / 1.6mm [0.06]
- Chassis material : Aluminum

- Chassis material: Aluminum
 Dimensions in mm, []= inches
 Mounting torque: 1.2N m(12.8kgf cm)max
 Screw tightening torque: 1.6N m(16.9kgf cm)max
 The housing for the remote sensing unused is mounted on CN1
 Please connect safety ground to FG terminal on the unit.

DRAFFOR OD DRAFFOR C DRAFFOR OD DRAFFOR 40 DRAFFOR 45 DRAFFOR 04 DRAFFOR 05 DRAFFOR 60

PBA1500F

A 1500



- ①Series name ②Single output
- (3)Output wattage 4 Universal input
- ⑤Output voltage
- ©Optional *6
 C :with Coating
 G :Low leakage current
 U :Operation stop voltage

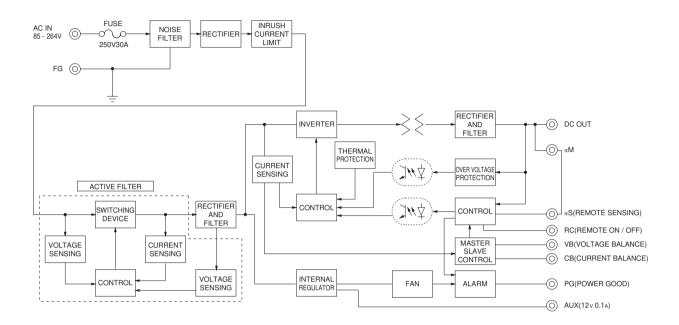
 - is set at a lower value F1:With Long-Life fan F3:Reverse air exhaust
 - type
 - F4:Low speed fan

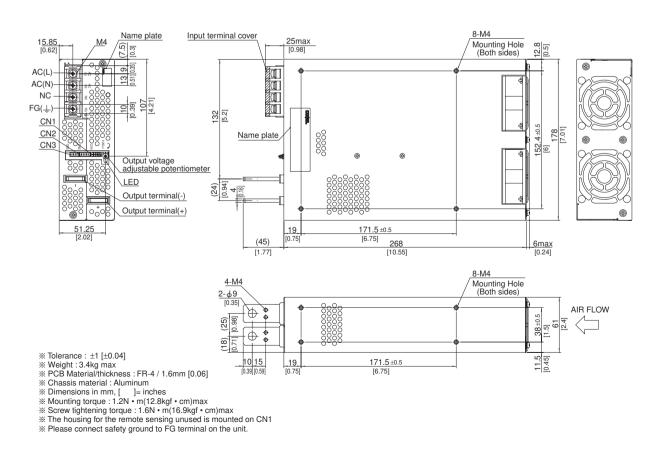
Refer to instruction manual

MODEL		PBA1500F-3R3	PBA1500F-5	PBA1500F-7R5	PBA1500F-12	PBA1500F-15	PBA1500F-24	PBA1500F-36	PBA1500F-48
MAX OUTPUT WATTAGE[W]		990	1500	1500	1500	1500	1680	1692	1680
DO OLITRUIT	ACIN 100V	3.3V 300A	5V 300A	7.5V 200A	12V 125A	15V 100A	24V 65A	36V 42A	48V 32A
DC OUTPUT	ACIN 200V *3	3.3V 300A	5V 300A	7.5V 200A	12V 125A	15V 100A	24V 70(105)A	36V 47(70)A	48V 35A

	MODEL				PBA1500F-7R5					PBA1500F-48	
	VOLTAGE[V]		AC85 - 264 1 φ	or DC120 - 370	0 (AC50 or DC70	Please refer to	the instruction n	nanual 7. option	* 5)		
	CURRENT[A]	ACIN 100V	15typ	19typ							
	CURRENT[A]	ACIN 200V									
	FREQUENCY[Hz]		50/60 (47 - 63)								
	EEEIOIENOVIO(1	ACIN 100V	72typ	77typ	81typ	81typ	83typ	84typ	84typ	84typ	
NPUT	EFFICIENCY[%]	ACIN 200V	75typ	81typ	83typ	84typ	86typ	87typ	87typ	87typ	
		ACIN 100V	0.98typ (lo=100								
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)								
		ACIN 100V	20/40typ (Io=10	00%) (Primary in	rush current /Se	condary inrush o	current) (More th	an 10 sec. to re-	-start)		
				40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10 sec. to re-start)							
		EAKAGE CURRENT[mA]			60Hz, lo=100%, A				,		
	VOLTAGE[V]		3.3	5	7.5	12	15	24	36	48	
	.	ACIN 100V		300	200	125	100	65	42	32	
	CURRENT[A]	ACIN 200V *3	300	300	200	125	100	70(105)	47(70)	35	
	LINE REGULATION[mV	/1	20max	20max	36max	48max	60max	96max	144max	192max	
	LOAD REGULATIONIM		40max	40max	60max	100max	120max	150max	150max	300max	
		0 to +50°C *1	80max	80max	120max	120max	120max	120max	150max	150max	
	RIPPLE[mVp-p]	-20 - 0°C *1	140max	140max	160max	160max	160max	160max	160max	400max	
TEMPERATURE REGULATION DRIFT[mV]		0 to +50°C *1	120max	120max	150max	150max	150max	150max	200max	200max	
	RIPPLE NOISE[mVp-p]	-20 - 0°C *1	160max	160max	180max	180max	180max	180max	240max	500max	
		0 to +50°C	40max	50max	75max	120max	150max	240max	360max	480max	
	TEMPERATURE REGULATION[mV]	-20 to +50℃	60max	75max	120max	180max	180max	290max	440max	600max	
	DRIFT[mV]	*2	12max	20max	30max	48max	60max	96max	144max	192max	
	START-UP TIME[ms]			00/200V, lo=100		Tomax	Tomax	Journan		102max	
	HOLD-UP TIME[ms]			0/200V, lo=100°							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]			3.96 - 6.00	5.25 - 8.25	8.25 - 13.20	10.50 - 16.50	16.50 - 26.40	25.20 - 39.60	38.40 - 56.00	
	OUTPUT VOLTAGE SET		3.30 - 3.40	5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92	
	OVERCURRENT PROT				ent or 101% of p				00.00	10.00	
PROTECTION	OVERVOLTAGE PROTECT		Vo+0.66 - 1.32		Vo+1.5 - 3.0	Vo+2.4 - 4.8	Vo+3.0 - 6.0	Vo+4.8 - 9.6	Vo+7.2 - 14.4	Vo+4.8 - 12.0	
CIRCUIT AND	OPERATING INDICATION		LED (Green)	101110 210	101110 010	1012	1010.0 0.0	101110 010	101712 1111	101110 1210	
OTHERS	REMOTE SENSING		Provided								
	REMOTE ON/OFF		Provided								
	INPUT-OUTPUT · RC			rute. Cutoff curre	ent = 25mA, DC5	500V 50M O min	(At Room Tempe	erature)			
	INPUT-FG				ent = 25mA, DC5						
ISOLATION	OUTPUT · RC · AUX-FO	G			t = 100mA, DC5						
	OUTPUT-RC · AUX										
	OPERATING TEMP.:HUMID.AND	ALTITUDE	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature) -20 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max								
	STORAGE TEMP. HUMID.AND	ALTITUDE			n condensing) 9,	·	· · · · · · · · · · · · · · · · · · ·				
ENVIRONMENT	VIBRATION				nutes period, 60			axis			
	IMPACT		196.1m/s ² (200	a), 11ms, once e	each X, Y and Z	axis					
SAFFTY AND	AGENCY APPROVALS (At only	AC input)), EN60950-1, EI		s with DEN-AN				
NOISE	CONDUCTED NOISE				B, VCCI-B, CISPR			ditional EMI/EMC	Filter required for	meeting class B	
REGULATIONS	HARMONIC ATTENUAT	OR	Complies with I	EC61000-3-2 *	7					<u> </u>	
	CASE SIZE/WEIGHT		178×61×268n	nm [7.01 × 2.4 ×	10.55 inches] (wi	ithout terminal b	lock and screw)	(W×H×D) /3.4I	kg max		
OTHERS	COOLING METHOD		Forced cooling		1,				•		

- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN
 - Ripple and ripple noise is measured on measuring board with capacitor of 22 $\mu\,\text{F}$ within 150mm from the output terminal.
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- *3 () means peak current. Peak loading for 10s. And Duty 35% max, refer to Instruction manual in detail.
- *4 Overvoltage protection circuit to follow to output voltage setting. Standard overvoltage protection circuit is please contact us for details.
- *5 Derating is required.Consult us for details.
- *6 Please contact us about safety approvals for the model with option.
- Please contact us about class C.
- A sound may occur from power supply at pulse loading.





PBA1500T

1500



①Series name ②Single output

3 Output wattage 4 Triple input phase

(a) Triple linguit phase
(b) Output voltage
(c) Output phase
(d) Output phase
(e) Output
(

is set at a lower value F1:With Long-Life fan F3:Reverse air exhaust type

F4:Low speed fan

Refer to instruction manual

DD 4 / TOOT 40

MODEL		PBA1500T-5	PBA1500T-12	PBA1500T-24	PBA1500T-48
MAX OUTPUT WATTAGE[W]		1500	1500	1680	1680
DC OUTPUT	ACIN 200V *3	5V 300A	12V 125A	24V 70(105)A	48V 35A

	MODEL		PBA1500T-5	PBA1500T-12	PBA1500T-24	PBA1500T-48				
	VOLTAGE[V]		AC170 - 264 3φ (AC100 Pleas	e refer to the instruction manual	7. option * 5)					
INPUT	CURRENT[A]	ACIN 200V	6typ							
	FREQUENCY[Hz]		50/60 (47 - 63)							
	EFFICIENCY[%]	ACIN 200V	81typ	84typ	87typ	87typ				
	POWER FACTOR	ACIN 200V	0.95typ (lo=100%)							
	INRUSH CURRENT[A]	ACIN 200V	40/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10 sec. to re-start)							
	LEAKAGE CURRENT[r	nA]	1.5max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1, DENAN)							
	VOLTAGE[V]		5	12	24	48				
	CURRENT[A]	ACIN 200V *3	300	125	70(105)	35				
	LINE REGULATION[m\	/]	20max	48max	96max	192max				
	LOAD REGULATION[m	V]	40max	100max	150max	300max				
	RIPPLE[mVp-p]	0 to +50°C *1	80max	120max	120max	150max				
	IIII I EE[IIIVP-P]	-20 - 0℃ *1	140max	160max	160max	400max				
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	150max	150max	200max				
OUTPUT	TILL TEE HOIOE[III 19 P]	-20 - 0℃ *1	160max	180max	180max	500max				
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	240max	480max				
		-20 to +50℃	75max	180max	290max	600max				
	DRIFT[mV] *2		20max	48max	96max	192max				
	START-UP TIME[ms]		* '	Start-up time is 500ms typ for less	than 1 minute of applying input aga	ain from turning off the input voltage.				
	HOLD-UP TIME[ms]		20typ (ACIN 200V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		3.96 - 6.00	8.25 - 13.20	16.50 - 26.40	38.40 - 56.00				
	OUTPUT VOLTAGE SET	TING[V]	5.00 - 5.15	12.00 - 12.48	24.00 - 24.96	48.00 - 49.92				
	OVERCURRENT PROT	ECTION	Works over 105% of rated current or 101% of peak current and recovers automatically							
PROTECTION	OVERVOLTAGE PROTECT		Vo+1.0 - 2.0	Vo+2.4 - 4.8	Vo+4.8 - 9.6	Vo+2.0 - 12.0				
CIRCUIT AND OTHERS	0	ON	LED (Green)							
OTTLETO	REMOTE SENSING		Provided							
	REMOTE ON/OFF		Provided							
	INPUT-OUTPUT · RC			ent = 25mA , DC500V $50\text{M}\Omega\text{min}$	· · · · · · · · · · · · · · · · · · ·					
ISOLATION	INPUT-FG			ent = 25mA , DC500V $50\text{M}\Omega\text{min}$	· · · · · · · · · · · · · · · · · · ·					
	OUTPUT · RC · AUX-F	G		$t = 100 \text{mA}, DC500V 50M \Omega \text{min}$						
	OUTPUT-RC · AUX			$t = 100 \text{mA}, DC500V 50M\Omega \text{min}$	<u> </u>					
	OPERATING TEMP.,HUMID.AND			g), 20 - 90%RH (Non condensin	<u> </u>					
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE		n condensing) 9,000m (30,000fe	·					
	VIBRATION			nutes period, 60minutes each al	ong X, Y and Z axis					
CAFETY AND	IMPACT		196.1m/s² (20G), 11ms, once e		W DEN AN					
NOISE	AGENCY APPROVALS (At only	/ AC input)), EN60950-1, EN50178 Complie						
REGULATIONS					B, EN55022-B, additional EMI/EMC					
OTHERS	CASE SIZE/WEIGHT		•	10.55 inches] (without terminal b	olock and screw) (W x H x D) /3.4	kg max				
	COOLING METHOD		Forced cooling (internal fan)							

- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).
 - Ripple and ripple noise is measured on measuring board with capacitor of 22 µ F within 150mm from the output terminal.
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.

 *3 () means peak current. Peak loading for 10s. And Duty 35% max, refer to Instruction manual in detail.
- Overvoltage protection circuit to follow to output voltage setting. Standard overvoltage protection circuit is please contact us for details.
- *5 Derating is required.Consult us for details.
- *6 Please contact us about safety approvals for the model with option.
 - A sound may occur from power supply at pulse loading.

