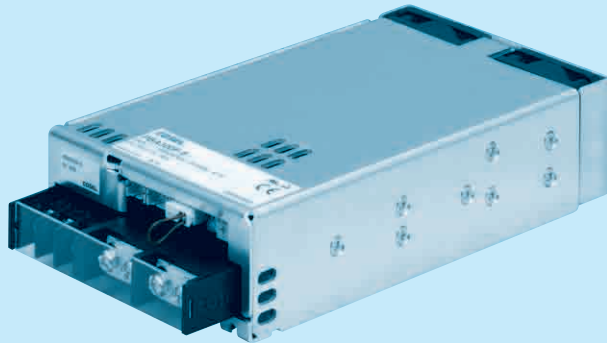


PBA300F

Ordering information

① PB ② A ③ 300 ④ F ⑤ -5 ⑥ -□



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.

- ① Series name
- ② Single output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage
- ⑥ 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 7.1.

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	
DC OUTPUT	ACIN 100V	3.3V 60A	5V 60A	7.5V 40A	12V 27A	15V 22A	24V 14A	36V 9A	48V 7A
	ACIN 200V *3	3.3V 60A	5V 60A	7.5V 40A	12V 27A	15V 22A	24V 14(16.5)A	36V 9A	48V 7A

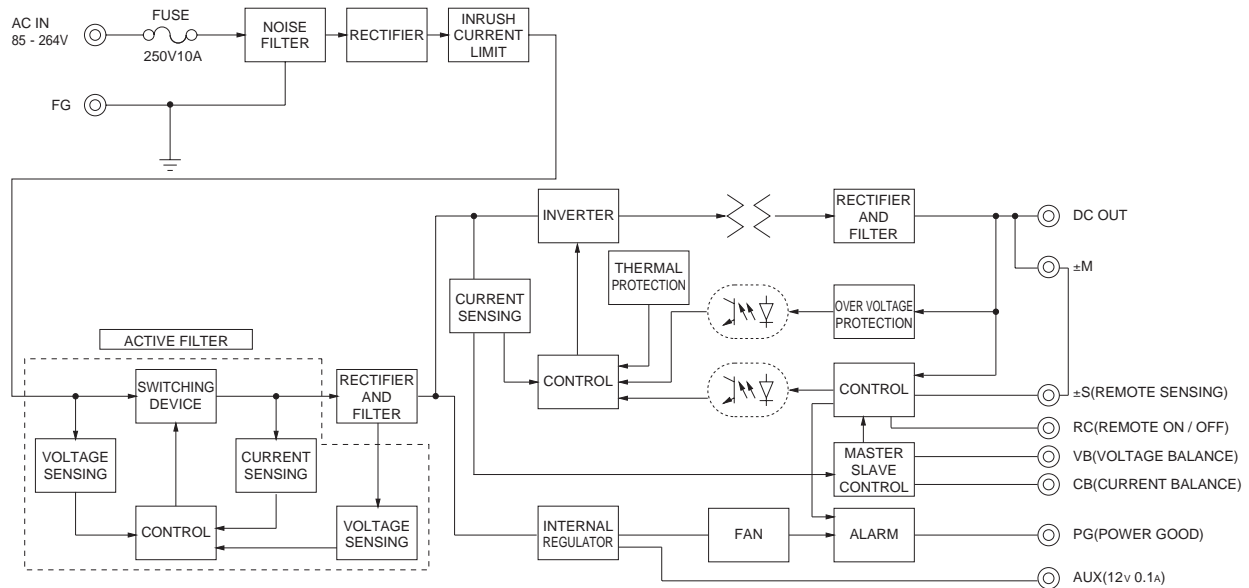
SPECIFICATIONS

	MODEL	PBA300F-3R3	PBA300F-5	PBA300F-7R5	PBA300F-12	PBA300F-15	PBA300F-24	PBA300F-36	PBA300F-48							
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC120 - 350 (AC50 or DC70 Please refer to the instruction manual 7. option *4)														
	CURRENT[A]	ACIN 100V	3typ		4.1typ											
		ACIN 200V	1.6typ		2typ											
	FREQUENCY[Hz]	50/60 (47 - 63)														
	EFFICIENCY[%]	ACIN 100V	68typ	74typ	76typ	78typ	78typ	79typ	81typ	79typ						
		ACIN 200V	71typ	77typ	79typ	81typ	81typ	82typ	84typ	82typ						
	POWER FACTOR	ACIN 100V	0.98typ (Io=100%)													
		ACIN 200V	0.95typ (Io=100%)													
	INRUSH CURRENT[A]	ACIN 100V	20/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More then 3 sec. to re-start)													
		ACIN 200V	40/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More then 3 sec. to re-start)													
LEAKAGE CURRENT[mA]	0.45/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1.DENAN)															
OUTPUT	VOLTAGE[V]	3.3	5	7.5	12	15	24	36	48							
	CURRENT[A]	ACIN 100V	60	60	40	27	22	14	9	7						
		ACIN 200V *3	60	60	40	27	22	14(16.5)	9	7						
	LINE REGULATION[mV]	20max	20max	36max	48max	60max	96max	144max	192max							
	LOAD REGULATION[mV]	40max	40max	60max	100max	120max	150max	150max	300max							
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	120max	120max	150max	150max						
		-20 - 0°C *1	140max	140max	160max	160max	160max	160max	160max	400max						
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	150max	200max	200max						
		-20 - 0°C *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°C		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, Io=100%) *Start-up time is 500ms typ for less than 1minute of applying input again from turning off the input voltage.															
HOLD-UP TIME[ms]	20typ (ACIN 100/200V, Io=100%)															
OUTPUT VOLTAGE ADJUSTMENT RANGE[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 SETTING[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	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rated current or 101% of peak current and recovers automatically														
	OVERVOLTAGE PROTECTION[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							
	OPERATING INDICATION	LED (Green)														
	REMOTE SENSING	Provided														
ISOLATION	REMOTE ON/OFF	Provided														
	INPUT-OUTPUT - RC	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)														
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)														
	OUTPUT - RC - AUX-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)														
ENVIRONMENT	OUTPUT-RC - AUX	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)														
	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 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	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis														
SAFETY AND NOISE REGULATIONS	IMPACT	196.1m/s ² (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														
	CONDUCTED NOISE	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN5011-B, EN55022-B														
	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 *6														
OTHERS	CASE SIZE/WEIGHT	102 x 42 x 170mm [4.02 X 1.65 X 6.69 inches] (without terminal block and screw) (W X H X D) /1.0kg max														
	COOLING METHOD	Forced cooling (internal fan)														

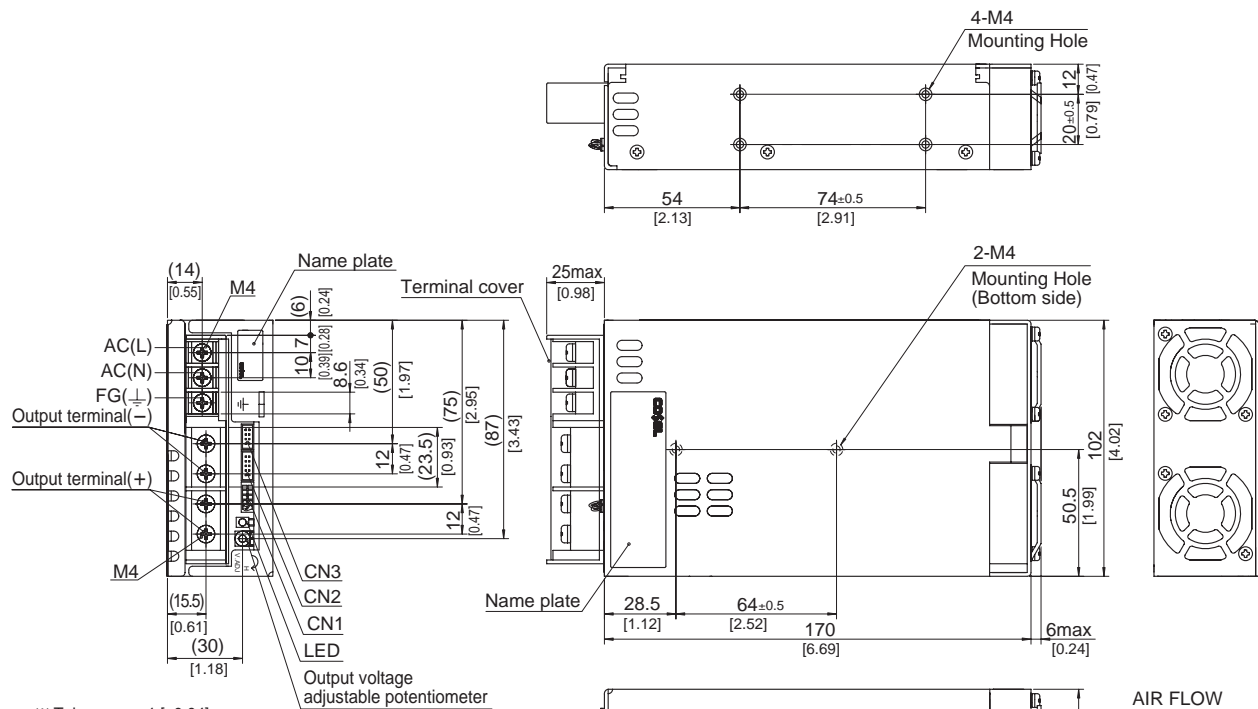
*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 () means peak current. Peak loading for 10s. And Duty 35% max, refer to Instruction manual in detail.
 *4 Derating 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.

Block diagram



External view



- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 1.0kg max
- ※ PCB Material/thickness : FR-4 / 1.6mm [0.06]
- ※ Chassis material : Aluminum
- ※ Dimensions in mm, [] = inches
- ※ Mounting torque : 1.2N · m max
- ※ Screw tightening torque : 1.6N · m max
- ※ The housing for the remote sensing unused is mounted on CN1
- ※ Please connect safety ground to FG terminal on the unit.



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