

PBW30F

PB

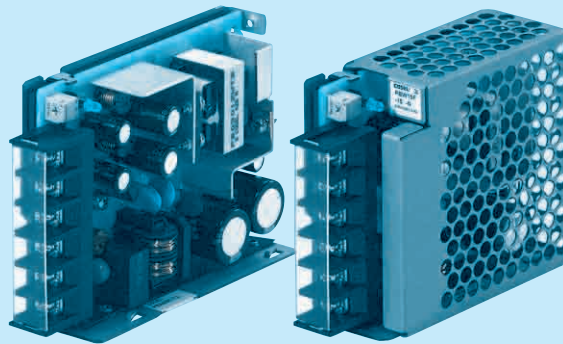
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Recommended EMI/EMC Filter
NAC-06-472

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

- ① Series name
② Dual output
③ Output wattage
④ Universal input
⑤ Output voltage
⑥ Optional *10
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
N1 : with DIN rail
V : Output voltage setting
potentiometer external-
ly

Cover is optional

MODEL	PBW30F-5	PBW30F-12	PBW30F-15
MAX OUTPUT WATTAGE[W]	15	31.2	30.0
DC OUTPUT	VOLTAGE[V] *6 CURRENT1[A] CURRENT2[A] *5	± 5 (+10) 1.5 1.3 1.7	± 12 (+24) 1.0 1.4

SPECIFICATIONS

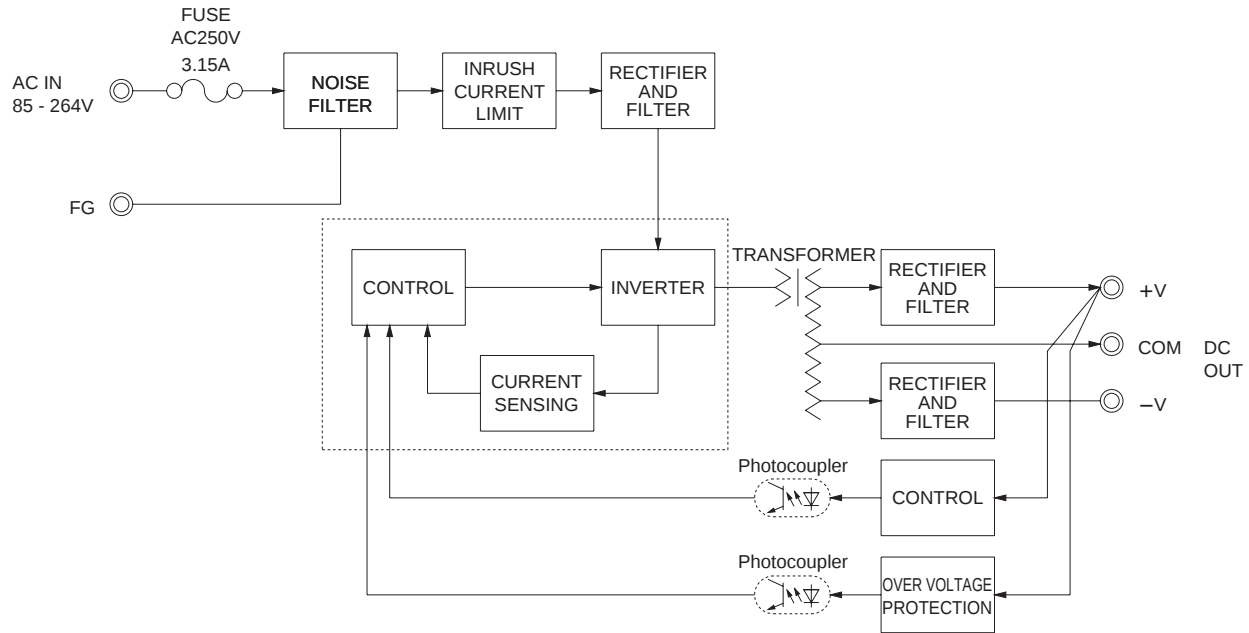
	MODEL	PBW30F-5	PBW30F-12	PBW30F-15
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *8)		
	CURRENT[A]	ACIN 100V	0.4typ (CURRENT1)	0.7typ (CURRENT1)
		ACIN 200V	0.25typ (CURRENT1)	0.4typ (CURRENT1)
	FREQUENCY[Hz]	50/60 (47 - 440) or DC		
	EFFICIENCY[%]	ACIN 100V	75typ (CURRENT1)	78typ (CURRENT1)
		ACIN 200V	75typ (CURRENT1)	81typ (CURRENT1)
	INRUSH CURRENT[A]	ACIN 100V	15typ (CURRENT1) (At cold start)	79typ (CURRENT1)
OUTPUT	ACIN 200V	30typ (CURRENT1) (At cold start)		
	LEAKAGE CURRENT[ma]	0.30/0.65max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1.DENAN)		
	VOLTAGE[V]	± 5	± 12	± 15
	CURRENT1[A]	1.5	1.3	1.0
	CURRENT2[A]	2.0	1.7	1.4
	LINE REGULATION[mV]	20max	60max	60max
	LOAD REGULATION 1[mV]	250max	600max	600max
	LOAD REGULATION 2[mV]	500max	750max	750max
	RIPPLE[mVp-p]	0 to +50°C	80max	120max
		-10 - 0°C	140max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	150max
		-10 - 0°C	160max	180max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	120max
		-10 to +50°C	60max	150max
	DRIFT[mV]	20max	48max	60max
	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%)		
PROTECTION CIRCUIT AND OTHERS	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	4.99 - 6.00 (+V and -V are simultaneously adjusted)	9.60 - 13.2 (+V and -V are simultaneously adjusted)	13.2 - 16.5 (+V and -V are simultaneously adjusted)
	OUTPUT VOLTAGE SETTING[V]	4.99 - 5.30 (+V and -V CURRENT1)	11.5 - 12.5 (+V and -V CURRENT1)	14.4 - 15.6 (+V and -V CURRENT1)
	OVERCURRENT PROTECTION	Works over 105% of rated current and recovers automatically		
	OVERVOLTAGE PROTECTION[V]	6.90 - 10.0	16.8 - 24.0	20.0 - 29.0
ISOLATION	OPERATING INDICATION	LED (Green)		
	REMOTE ON/OFF	None		
	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)		
ENVIRONMENT	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)		
	OUTPUT-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (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		
SAFETY AND NOISE REGULATIONS	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis		
	AGENCY APPROVALS (At only AC input)	UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN		
OTHERS	CONDUCTED NOISE	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B		
	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 (Not built-in to active filter *7) *12		
	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)		
	COOLING METHOD	Convection		

- *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 Figures for 0 to rated current 1. The current not measured side is fixed.
*4 Figures for 0 to rated current 2. The current not measured

- side is fixed.
*5 The sum of +power -power must be less than output power.
*6 ±5, ±12, ±15 can be used as +10, +24 and +30.
*7 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.
*8 Derating is required.
*9 Figures for rated current 1.

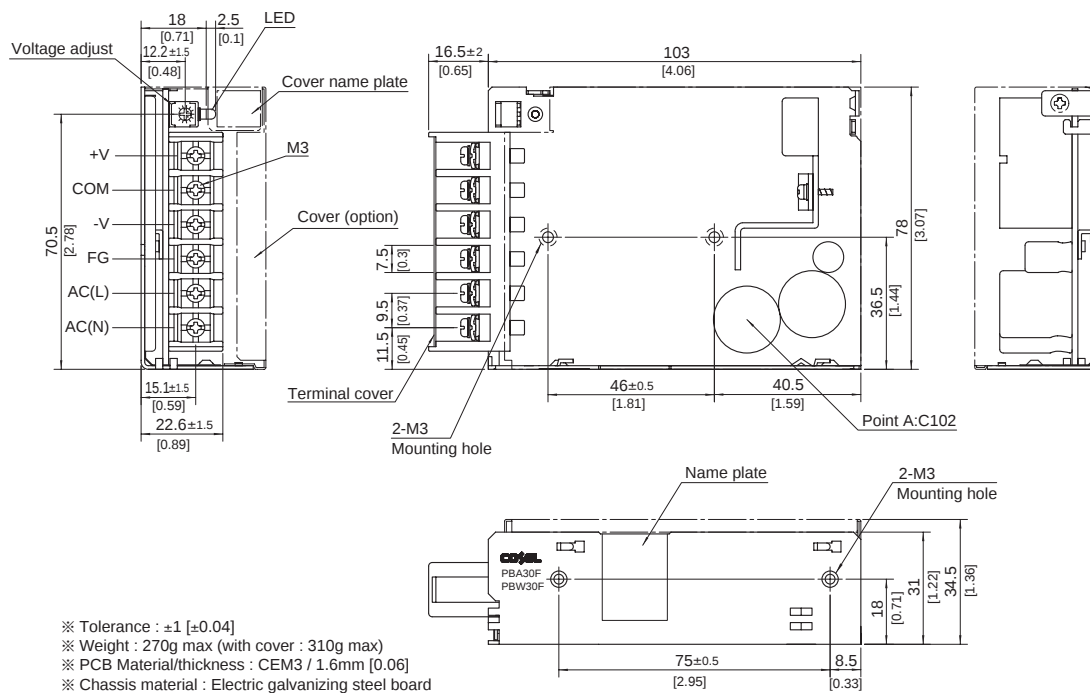
- *10 Please contact us about safety approvals for the model with option.
*11 Please contact us about dynamic load and input response.
*12 Please contact us about class C.
* Parallel operation with other model is not possible.
* Derating is required when operated with cover.
* A sound may occur from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

Block diagram



External view

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



- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 270g max (with cover : 310g max)
- ※ PCB Material/thickness : CEM3 / 1.6mm [0.06]
- ※ Chassis material : Electric galvanizing steel board
- ※ Dimensions in mm, [] = inches
- ※ Mounting torque : $0.6\text{N} \cdot \text{m}$ (6.3kgf $\cdot$ cm) max
- ※ Screw tightening torque : M3 $0.8\text{N} \cdot \text{m}$ (8.5kgf $\cdot$ cm) max
- ※ Please connect safety ground to the unit in 2-M3 holes.



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- дистрибьютор электронных компонентов с 1994 года
- контрактный производитель электроники с 2007 года с собственным производством в Санкт-Петербурге (компания Макро ЕМС, входит в ГК Макро Групп)
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- инженерная поддержка проектов заказчиков
- сертификат системы менеджмента качества ISO 9001-2015
- необходимые сертификаты и лицензии

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