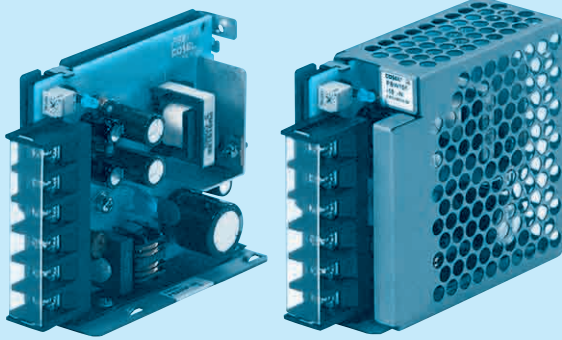


# PBW15F

① PB ② W ③ 15 ④ F ⑤ -□ ⑥ -□



Recommended EM/EMC Filter  
NAC-06-472



High voltage pulse noise type : NAP series  
Low leakage current type : NAM series  
\*The EM/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 externaly

Cover is optional

MODEL	PBW15F-12	PBW15F-15
MAX OUTPUT WATTAGE[W]	*5 16.8	15.0
DC OUTPUT	VOLTAGE[V] *6 ±12 ( +24 )	±15 ( +30 )
	CURRENT1[A]	0.7
	CURRENT2[A] *5	1.4

## SPECIFICATIONS

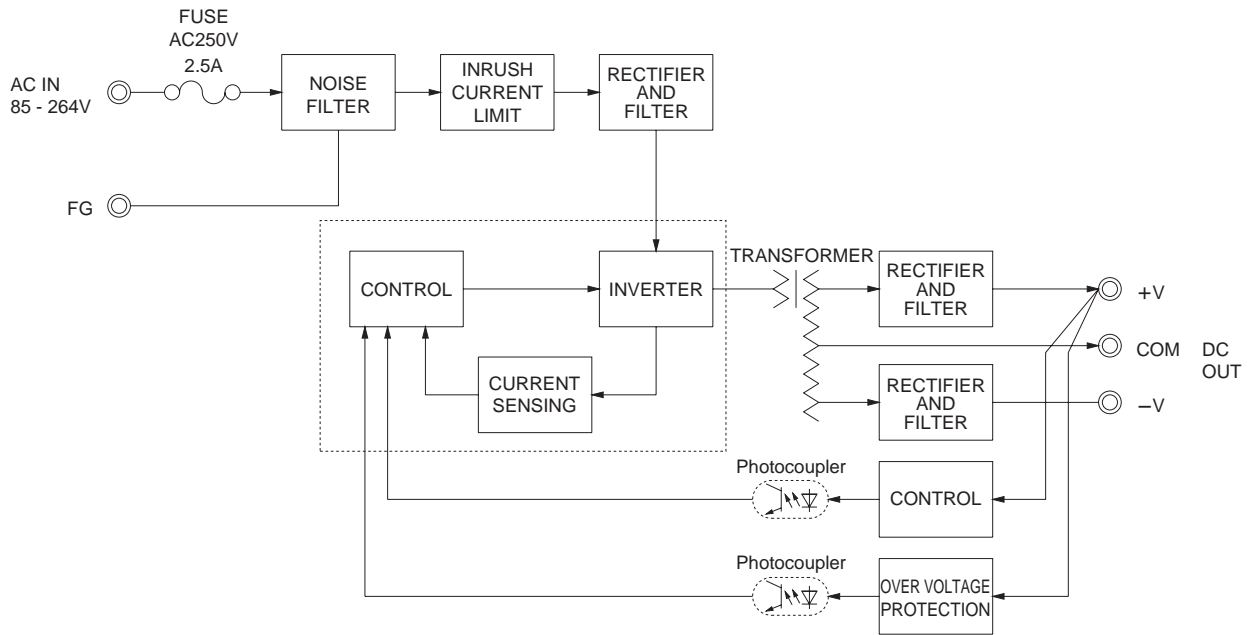
	MODEL	PBW15F-12	PBW15F-15	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *8)		
	CURRENT[A]	ACIN 100V	0.40typ (CURRENT1)	
		ACIN 200V	0.20typ (CURRENT1)	
	FREQUENCY[Hz]	50/60 (47 - 440) or DC		
	EFFICIENCY[%]	ACIN 100V	74typ (CURRENT1)	
		ACIN 200V	77typ (CURRENT1)	
INRUSH CURRENT[A]	ACIN 100V	15typ (CURRENT1) (At cold start)		
	ACIN 200V	30typ (CURRENT1) (At cold start)		
LEAKAGE CURRENT[mA]	0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1.DENAN)			
OUTPUT	VOLTAGE[V]	±12 / ( +24V reference number )	±15 / ( +30V reference number )	
	CURRENT1[A]	0.7 / 0.7	0.5 / 0.5	
	CURRENT2[A] *5	1.4 / -	1.0 / -	
	LINE REGULATION[mV] *10	60max / 96max	60max / 96max	
	LOAD REGULATION 1[mV] *11	600max / 150max	600max / 150max	
	LOAD REGULATION 2[mV] *11	750max / -	750max / -	
	RIPPLE[mVp-p]	0 to +50C *1	120max / 240max	120max / 240max
		-10 - 0C *1	160max / 320max	160max / 320max
	RIPPLE NOISE[mVp-p]	0 to +50C *1	150max / 300max	150max / 300max
		-10 - 0C *1	180max / 360max	180max / 360max
	TEMPERATURE REGULATION[mV]	0 to +50C	120max	150max
		-10 to +50C	150max	180max
	DRIFT[mV] *2	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%)			
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	9.60 - 13.2 (+V and -V are simultaneously adjusted)		13.2 - 16.5 (+V and -V are simultaneously adjusted)	
OUTPUT VOLTAGE SETTING[V]	11.5 - 12.5 (+V and -V CURRENT1)		14.4 - 15.6 (+V and -V CURRENT1)	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rated current and recovers automatically		
	OVERVOLTAGE PROTECTION[V]	16.8 - 24.0		
	OPERATING INDICATION	LED (Green)		
REMOTE ON/OFF	None			
ISOLATION	INPUT-OUTPUT	AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)		
	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)		
ENVIRONMENT	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	10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT	196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis		
SAFETY AND NOISE REGULATIONS	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, EN55011-B, EN55022-B		
	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 (Not built-in to active filter *7) *12		
OTHERS	CASE SIZE/WEIGHT	31 x 78 x 85mm [1.22 x 3.07 x 3.35 inches] (without terminal block) (W x H x D) / 200g max (with cover : 235g 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 ±12, ±15 can be used as +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 to rated current 1.

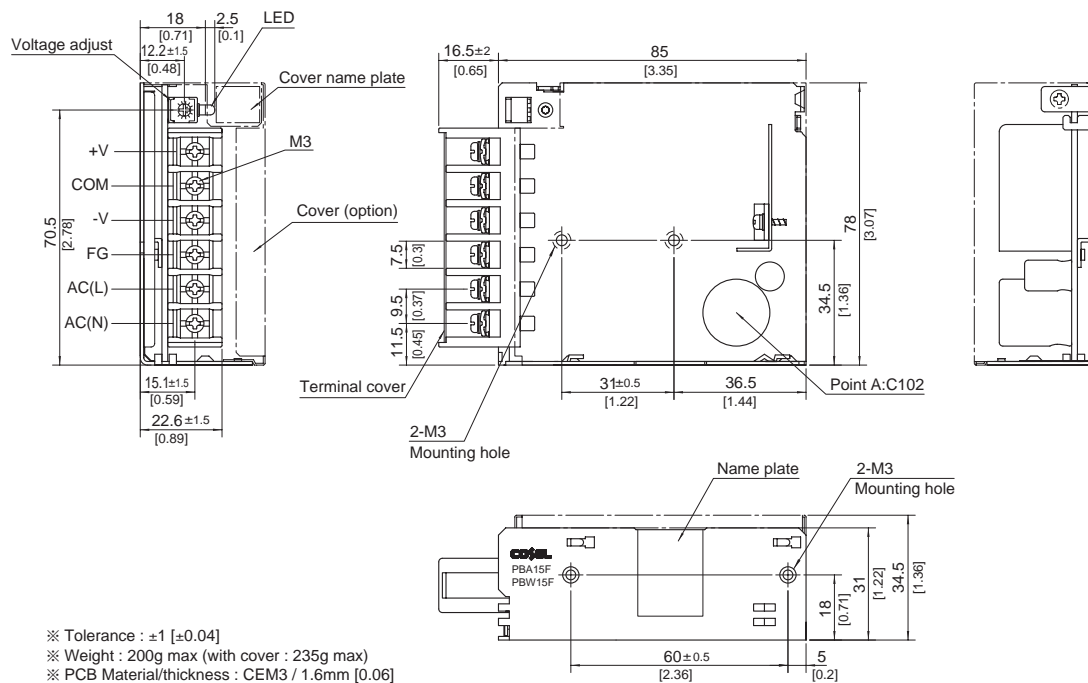
\*10 Please contact us about safety approvals for the model with option.  
 \*11 Please contact us about dynamic load and input response.  
 \*12 Please contact us about class C.  
 \* Parallel operation with other model is not possible.  
 \* Derating is required when operated with cover.  
 \* A sound 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 : 200g max (with cover : 235g max)
- ※ PCB Material/thickness : CEM3 / 1.6mm [0.06]
- ※ Chassis material : Electric galvanizing steel board
- ※ Dimensions in mm, [ ]= inches
- ※ Mounting torque : 0.6N • m(6.3kgf • cm)max
- ※ Screw tightening torque : M3 0.8N • m(8.5kgf • cm)max
- ※ Please connect safety ground to the unit in 2-M3 holes.

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