

PBW50F

Ordering information

PB W 50 F - □ - □
 ① ② ③ ④ 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 Dual output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage
- ⑥ Optional *9
- 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
- N1 : with DIN rail
- V : Output voltage setting potentiometer externaly

Cover is optional

MODEL	PBW50F-5	PBW50F-12	PBW50F-15	
MAX OUTPUT WATTAGE[W]	*6 30	50.4	51	
DC OUTPUT	VOLTAGE[V] *8	± 5 (+10)	± 12 (+24)	± 15 (+30)
	CURRENT1[A]	3.0	2.1	1.7
	CURRENT2[A] *6	4.0	2.7	2.4

SPECIFICATIONS

MODEL	PBW50F-5	PBW50F-12	PBW50F-15	
VOLTAGE[V]	AC85 - 264 1 φ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *3)			
CURRENT[A]	ACIN 100V	0.45typ (CURRENT1)	0.70typ (CURRENT1)	
	ACIN 200V	0.30typ (CURRENT1)	0.40typ (CURRENT1)	
FREQUENCY[Hz]	50/60 (47 - 63)			
EFFICIENCY[%]	ACIN 100V	76typ (CURRENT1)	81typ (CURRENT1)	81typ (CURRENT1)
	ACIN 200V	77typ (CURRENT1)	83typ (CURRENT1)	83typ (CURRENT1)
POWER FACTOR(Io=100%)	ACIN 100V	0.98typ	0.99typ	
	ACIN 200V	0.87typ	0.93typ	
INRUSH CURRENT[A]	ACIN 100V	15typ (CURRENT1) (At cold start)		
	ACIN 200V	30typ (CURRENT1) (At cold start)		
LEAKAGE CURRENT[mA]	0.40/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)			
VOLTAGE[V]	± 5	± 12	± 15	
CURRENT1[A]	3.0 / 3.0	2.1 / 2.1	1.7 / 1.7	
CURRENT2[A]	4.0 / -	2.7 / -	2.4 / -	
LINE REGULATION[mV]	20max / 36max	48max / 96max	60max / 96max	
LOAD REGULATION 1[mV]	250max / 100max	600max / 150max	600max / 150max	
LOAD REGULATION 2[mV]	500max / -	750max / -	750max / -	
RIPPLE[mVp-p]	0 to +50C *1	80max / 240max	120max / 240max	120max / 240max
	-10 - 0C *1	140max / 320max	160max / 320max	160max / 320max
RIPPLE NOISE[mVp-p]	0 to +50C *1	120max / 300max	150max / 300max	150max / 300max
	-10 - 0C *1	160max / 360max	180max / 360max	180max / 360max
TEMPERATURE REGULATION[mV]	0 to +50C	50max	120max	150max
	-10 to +50C	60max	150max	180max
DRIFT[mV]	*2 20max	48max	60max	
START-UP TIME[ms]	350typ(ACIN 100V, Io=100%)			
HOLD-UP TIME[ms]	20typ (ACIN 100V, Io=100%)			
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	
OPERATING INDICATION	LED (Green)			
REMOTE ON/OFF	Optional (Required external power source)			
ISOLATION	INPUT-OUTPUT · RC	*7 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 · RC-FG	*7 AC500V 1minute, Cutoff current = 100mA, 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 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			
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 *10		
OTHERS	CASE SIZE/WEIGHT	31 X 82 X 120mm [1.22 X 3.23 X 4.72 inches] (without terminal block) (W X H X D) / 280g max (with cover : 325g 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 Derating is required.

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

*5 Figures for 0 to rated current 2.The current not measured side is fixed.

*6 The sum of +power -power must be less than output power.

*7 RC is applied to remote ON/OFF option. RC is isolated with input/output and FG.

*8 ± 5, ± 12, ± 15 can be used as +10, +24 and +30.

*9 Please contact us about safety approvals for the model with option.

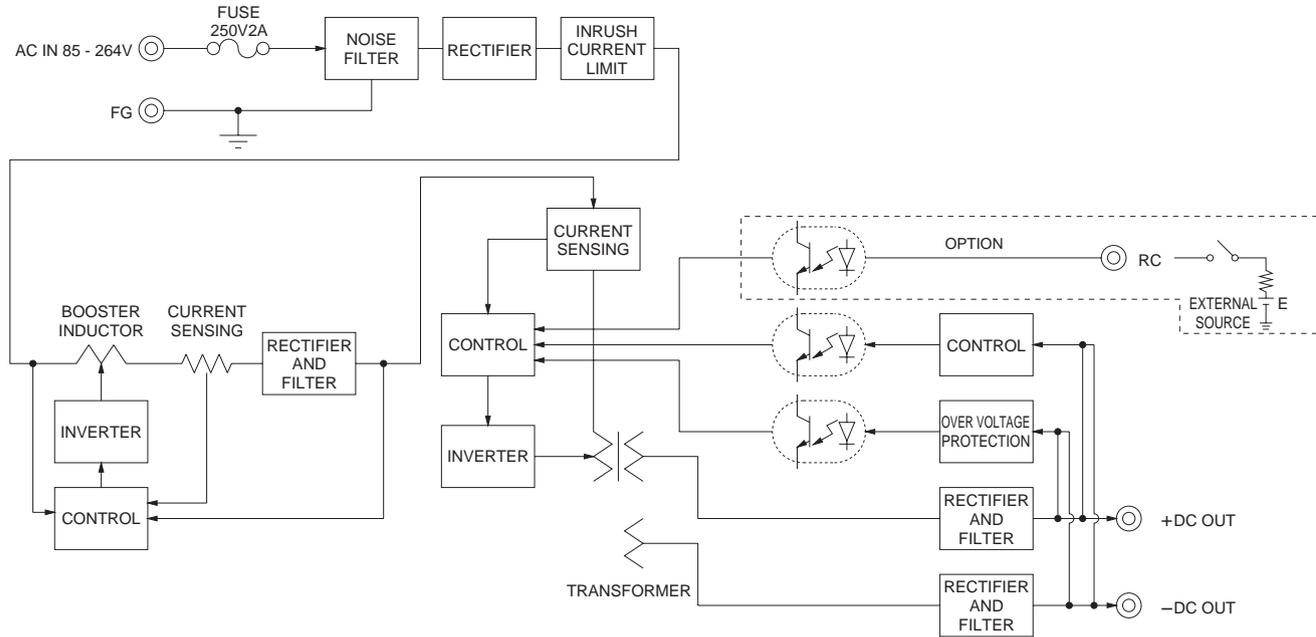
*10 Please contact us about class C.

* Parallel operation with other model is not possible.

* Derating is required when operated with cover.

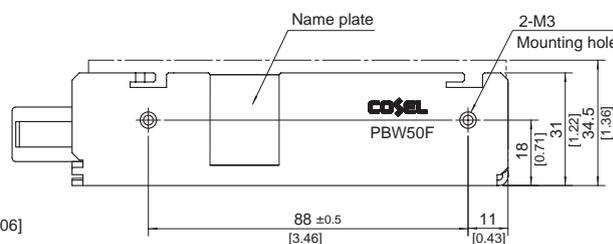
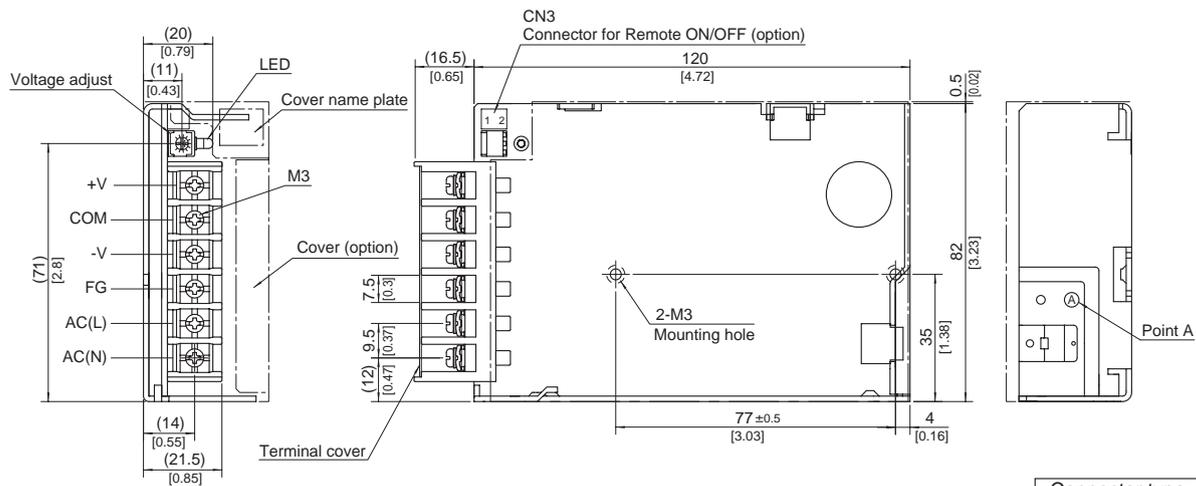
* A sound may occur from power supply at peak loading.

Block diagram



External view

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



Connector type
CN3 Option (Mfr : J.S.T.)

Pin No.	Contents
1	RC(+)
2	RC(-)

Barrier strip type

Model B2B-XH-A
Mating Connector (Terminal)
XHP-2
(BXH-001T-P0.6
or SXH-001T-P0.6)

- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 280g max (with cover : 325g max)
- ※ PCB Material/thickness : CEM3 / 1.6mm [0.06]
- ※ Chassis material : Aluminum
- ※ Dimensions in mm, [] = inches
- ※ Mounting torque : 0.49N · m(5kgf · 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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