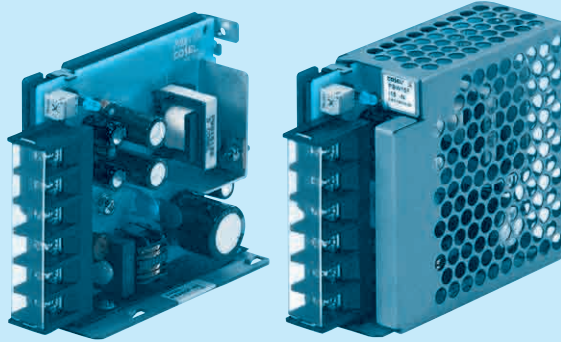
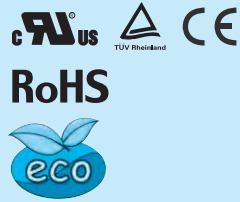


# PBW15F

PB W 15 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 \*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  
M :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           | 0.5         |
|                       | CURRENT2[A] *6 1.4        | 1.0         |

## SPECIFICATIONS

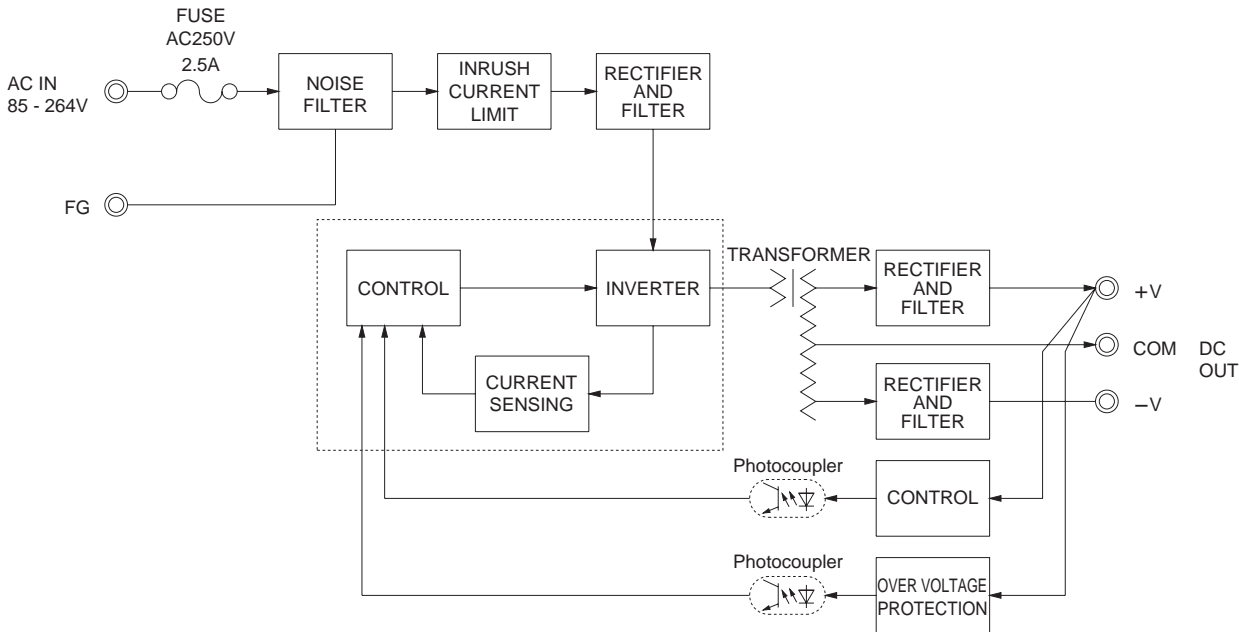
|                                    | MODEL  | PBW15F-12  | PBW15F-15   |                 |
|------------------------------------|--|--|---|-----------------|
| INPUT                              | VOLTAGE[V]   | AC85 - 264 1 φ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 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  | ±15 / ( +30V reference number )                     |                 |
|                                    | CURRENT1[A]  | 0.7  | 0.5 / 0.5   |                 |
|                                    | CURRENT2[A]  | *5 1.4   | - / -   |                 |
|                                    | LINE REGULATION[mV]  | *10 60max  | 96max   |                 |
|                                    | LOAD REGULATION 1[mV]  | *11 600max   | 150max  |                 |
|                                    | LOAD REGULATION 2[mV]  | *11 750max   | - / -   |                 |
|                                    | RIPPLE[mVp-p]  | 0 to +50°C *1  | 120max / 240max                                     | 120max / 240max |
|                                    |  | -10 - 0°C *1   | 160max / 320max                                     | 160max / 320max |
|                                    | RIPPLE NOISE[mVp-p]  | 0 to +50°C *1  | 150max / 300max                                     | 150max / 300max |
|                                    |  | -10 - 0°C *1   | 180max / 360max                                     | 180max / 360max |
|                                    | TEMPERATURE REGULATION[mV]   | 0 to +50°C   | 120max  | 150max          |
|                                    |  | -10 to +50°C   | 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  | 20.0 - 29.0   |                 |
|                                    | 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.

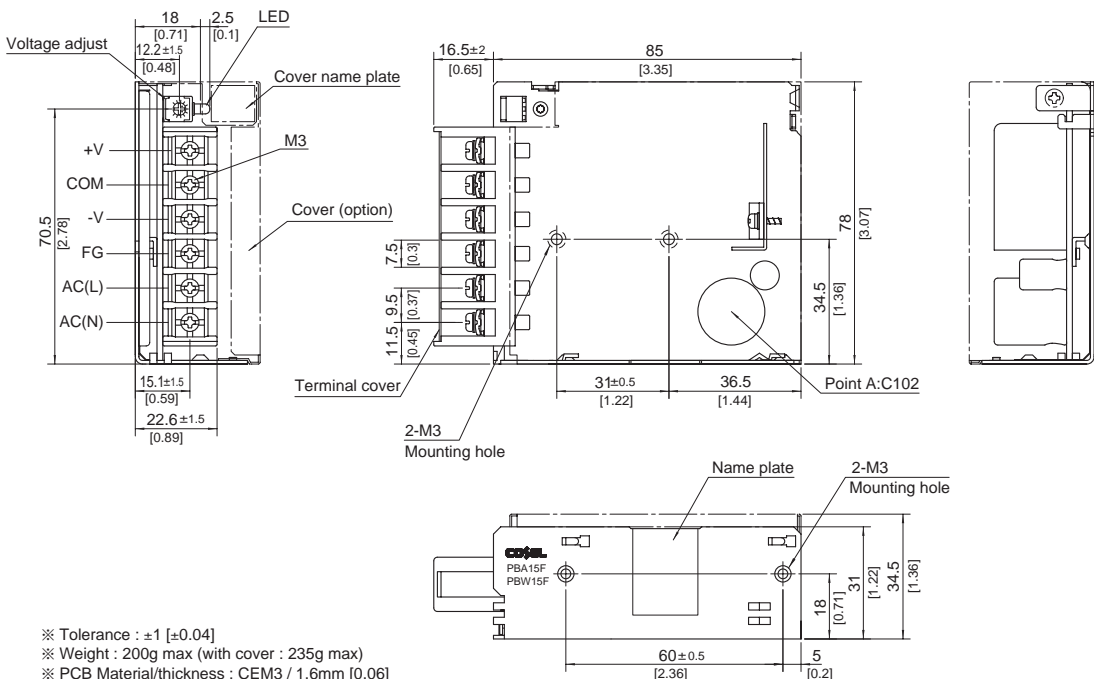
\*10 Please contact us about safety approvals for the model with option.  
 \*11 Please contact us about dynamic load and input response.  
 \*12 Please contact us about class C.  
 \* Parallel operation with other model is not possible.  
 \* Derating is required when operated with cover.  
 \* A sound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

Block diagram



External view

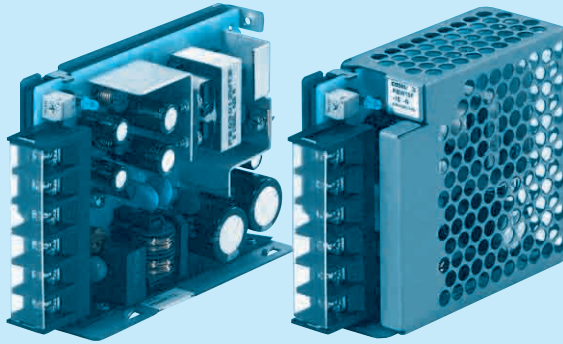
※ External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



- ※ 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.

# PBW30F

PB W 30 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 \*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  
 M : with DIN rail  
 V : Output voltage setting potentiometer externally

Cover is optional

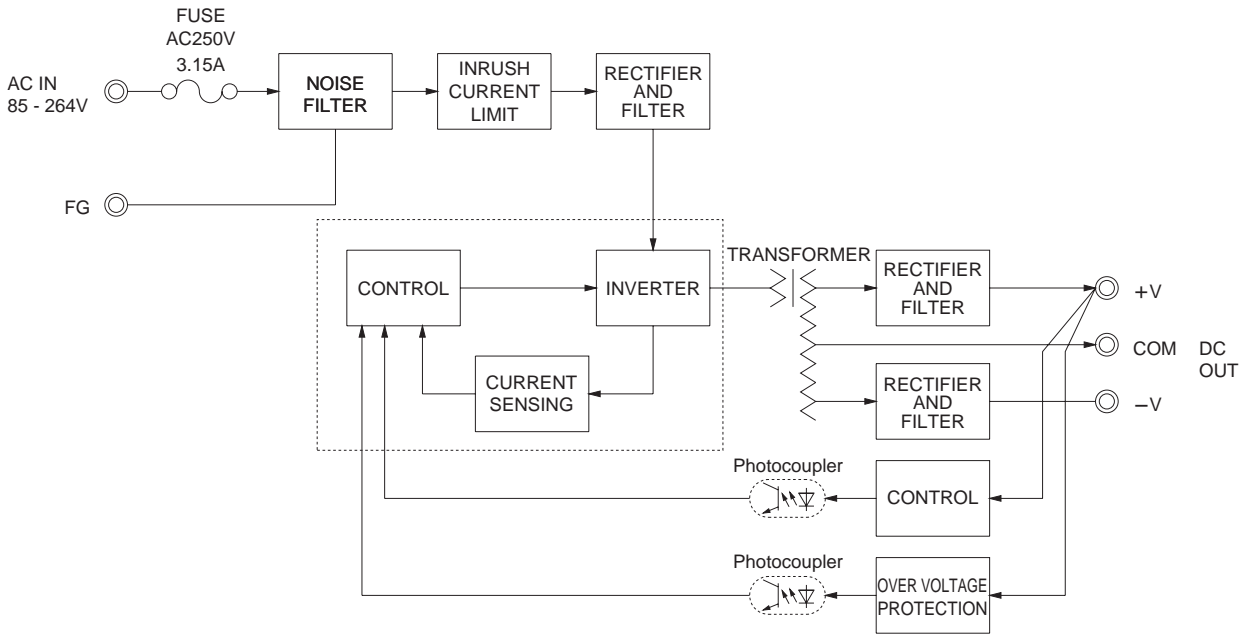
| MODEL                 | PBW30F-5       | PBW30F-12  | PBW30F-15   |
|-----------------------|----------------|------------|-------------|
| MAX OUTPUT WATTAGE[W] | 15             | 31.2       | 30.0        |
| DC OUTPUT             | VOLTAGE[V] *6  | ±5 ( +10 ) | ±12 ( +24 ) |
|                       | CURRENT1[A]    | 1.5        | 1.3         |
|                       | CURRENT2[A] *6 | 2.0        | 1.7         |

## 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)                                    | 77typ (CURRENT1)  | 78typ (CURRENT1) |
|                                    | ACIN 200V  | 75typ (CURRENT1)   | 81typ (CURRENT1)                                    | 79typ (CURRENT1)  |                  |
| INRUSH CURRENT[A]                  | ACIN 100V  | 15typ (CURRENT1) (At cold start)   |   |                   |                  |
|                                    | 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) |  |   |                   |                  |
| OUTPUT                             | 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            | 120max           |
|                                    |  | -10 - 0°C  | 140max  | 160max            | 160max           |
|                                    | RIPPLE NOISE[mVp-p]  | 0 to +50°C   | 120max  | 150max            | 150max           |
|                                    |  | -10 - 0°C  | 160max  | 180max            | 180max           |
|                                    | TEMPERATURE REGULATION[mV]   | 0 to +50°C   | 50max   | 120max            | 150max           |
|                                    |  | -10 to +50°C   | 60max   | 150max            | 180max           |
|                                    | 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%)   |  |   |                   |                  |
| 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)                    |                   |                  |
| PROTECTION CIRCUIT AND OTHERS      | 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  | 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 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   |   |                   |                  |

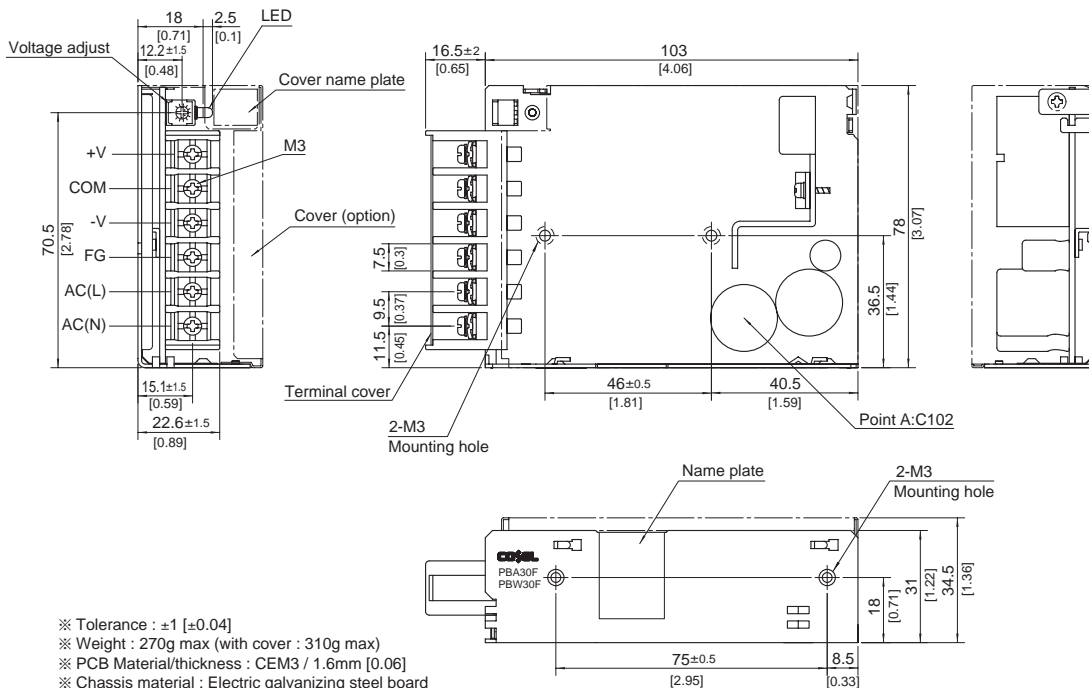
\*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).  
 \*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.  
 \*3 Figures for 0 to rated current 1. The current not measured side is fixed.  
 \*4 Figures for 0 to 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 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

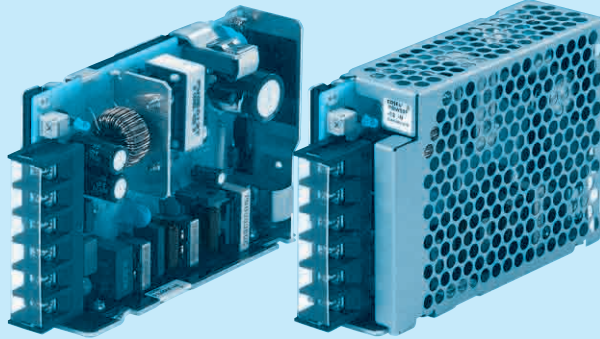
※ External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 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 : 0.6N • 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.

# PBW50F

① PB ② W ③ 50 ④ F 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
- Nt :with DIN rail
- V :Output voltage setting potentiometer external

Cover is optional

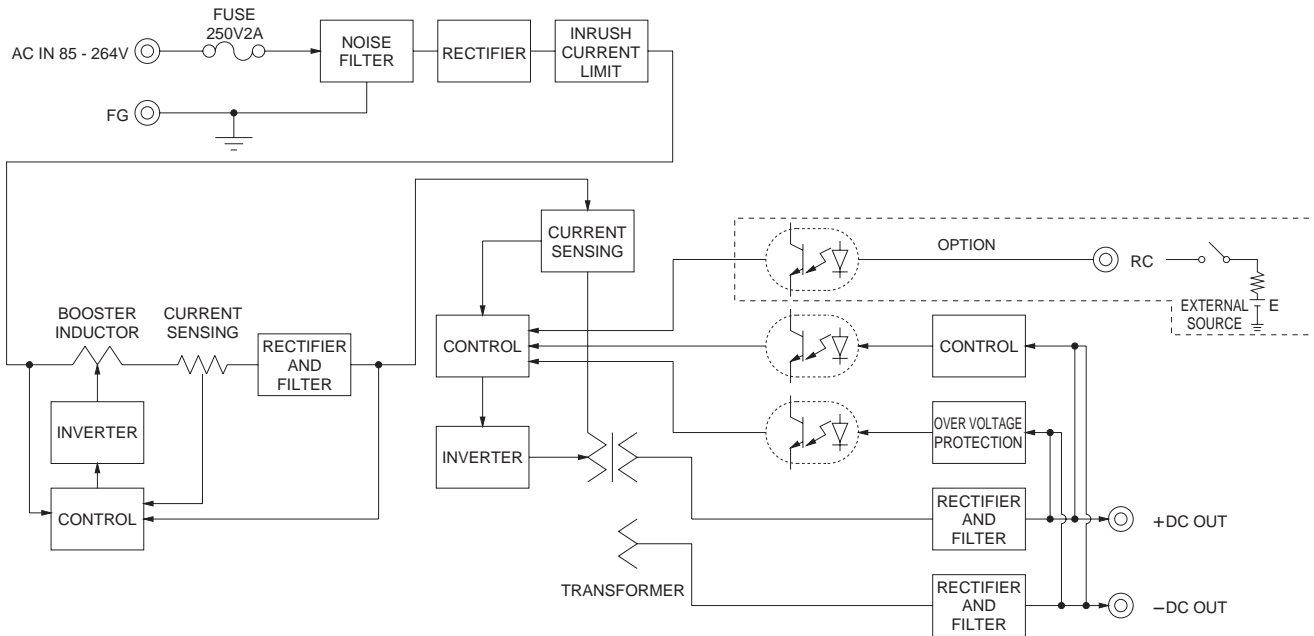
| MODEL                 | PBW50F-5    | PBW50F-12 | PBW50F-15 |
|-----------------------|-------------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 30          | 50.4      | 51        |
| DC OUTPUT             | VOLTAGE[V]  | ±5 (+10)  | ±15 (+30) |
|                       | CURRENT1[A] | 3.0 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

## SPECIFICATIONS

|                                    | MODEL  | PBW50F-5  | PBW50F-12   | PBW50F-15                     |                  |
|------------------------------------|--|---|---|-------------------------------|------------------|
| INPUT                              | VOLTAGE[V]   | AC85 - 264 1φ 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(Lo=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, Lo=100%, According to IEC60950-1.DENAN) |   |   |                               |                  |
| OUTPUT                             | VOLTAGE[V]   | ±5 / (+10V reference number)  | ±12 / (+24V reference number)                       | ±15 / (+30V reference number) |                  |
|                                    | 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 +50°C  | 80max / 240max                                      | 120max / 240max               | 120max / 240max  |
|                                    |  | -10 - 0°C   | 140max / 320max                                     | 160max / 320max               | 160max / 320max  |
|                                    | RIPPLE NOISE[mVp-p]  | 0 to +50°C  | 120max / 300max                                     | 150max / 300max               | 150max / 300max  |
|                                    |  | -10 - 0°C   | 160max / 360max                                     | 180max / 360max               | 180max / 360max  |
|                                    | TEMPERATURE REGULATION[mV]   | 0 to +50°C  | 50max   | 120max                        | 150max           |
|                                    |  | -10 to +50°C  | 60max   | 150max                        | 180max           |
|                                    | DRIFT[mV]  | 20max   |   |                               |                  |
|                                    | START-UP TIME[ms]  | 350typ (ACIN 100V, Lo=100%)   |   |                               |                  |
| HOLD-UP TIME[ms]                   | 20typ (ACIN 100V, Lo=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)                    |                               |                  |
| PROTECTION CIRCUIT AND OTHERS      | 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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis                         |   |                               |                  |
| SAFETY AND NOISE REGULATIONS       | IMPACT   | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis  |   |                               |                  |
|                                    | AGENCY APPROVALS (At only AC input)  | UL160950-1, 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  |   |                               |                  |
| OTHERS                             | HARMONIC ATTENUATOR  | Complies with IEC61000-3-2 *10  |   |                               |                  |
|                                    | 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  |   |                               |                  |

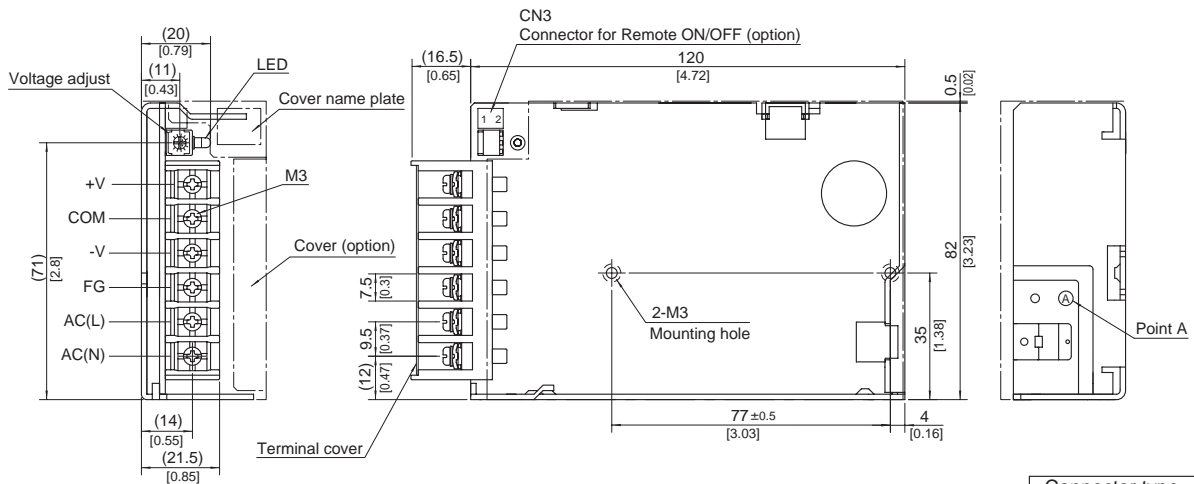
\*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).  
 \*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.  
 \*3 Derating is required.  
 \*4 Figures for 0 to rated current 1. The current not measured side is fixed.  
 \*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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#### Как с нами связаться

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