

## PBA10F

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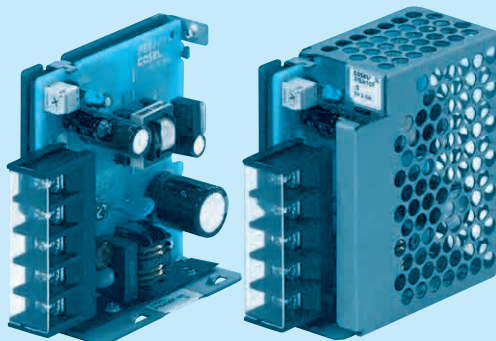
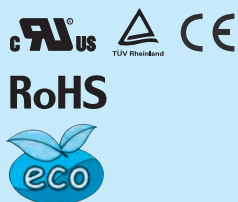
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Recommended EMI/EMC Filter  
NAC-06-472

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 Single output  
③ Output wattage  
④ Universal input  
⑤ Output voltage  
⑥ Optional \*5  
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  
(UL508 is acquired)  
NI : with DIN rail and Cover  
V : Output voltage setting  
potentiometer external-  
ly

Cover is optional

| MODEL                 | PBA10F-5 | PBA10F-12 | PBA10F-24 |
|-----------------------|----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 10       | 10.8      | 12        |
| DC OUTPUT             | 5V 2A    | 12V 0.9A  | 24V 0.5A  |

## SPECIFICATIONS

|                                     | MODEL                                | PBA10F-5                                                                                                                                  | PBA10F-12         | PBA10F-24     |
|-------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|
| INPUT                               | VOLTAGE[V]                           | AC85 - 264 1 $\phi$ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *3)                             |                   |               |
|                                     | CURRENT[A]                           | ACIN 100V                                                                                                                                 | 0.30typ (Io=100%) |               |
|                                     |                                      | ACIN 200V                                                                                                                                 | 0.20typ (Io=100%) |               |
|                                     | FREQUENCY[Hz]                        | 50/60 (47 - 440) or DC                                                                                                                    |                   |               |
|                                     | EFFICIENCY[%]                        | ACIN 100V                                                                                                                                 | 74typ             | 77typ         |
|                                     |                                      | ACIN 200V                                                                                                                                 | 74typ             | 77typ         |
|                                     | INRUSH CURRENT[A]                    | ACIN 100V                                                                                                                                 | 15typ (Io=100%)   |               |
| OUTPUT                              |                                      | ACIN 200V                                                                                                                                 | 30typ (Io=100%)   |               |
|                                     | LEAKAGE CURRENT[ma]                  | 0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1.DENAN)                                                                |                   |               |
|                                     | VOLTAGE[V]                           | 5                                                                                                                                         | 12                | 24            |
|                                     | CURRENT[A]                           | 2                                                                                                                                         | 0.9               | 0.5           |
|                                     | LINE REGULATION[mV] *6               | 20max                                                                                                                                     | 48max             | 96max         |
|                                     | LOAD REGULATION[mV] *6               | 40max                                                                                                                                     | 100max            | 150max        |
|                                     | RIPPLE[mVp-p]                        | 0 to +50°C *1                                                                                                                             | 80max             | 120max        |
|                                     |                                      | -10 - 0°C *1                                                                                                                              | 140max            | 160max        |
|                                     | RIPPLE NOISE[mVp-p]                  | 0 to +50°C *1                                                                                                                             | 120max            | 150max        |
|                                     |                                      | -10 - 0°C *1                                                                                                                              | 160max            | 180max        |
|                                     | TEMPERATURE REGULATION[mV]           | 0 to +50°C                                                                                                                                | 50max             | 120max        |
|                                     |                                      | -10 to +50°C                                                                                                                              | 60max             | 240max        |
|                                     | DRIFT[mV] *2                         | 20max                                                                                                                                     | 48max             | 96max         |
|                                     | 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]   | 4.50 - 5.50                                                                                                                               | 10.0 - 13.2       | 19.2 - 27.0   |
|                                     | OUTPUT VOLTAGE SETTING[V]            | 5.00 - 5.15                                                                                                                               | 12.00 - 12.48     | 24.00 - 24.96 |
| PROTECTION<br>CIRCUIT AND<br>OTHERS | OVERCURRENT PROTECTION               | Works over 105% of rated current and recovers automatically                                                                               |                   |               |
|                                     | OVERVOLTAGE PROTECTION[V]            | 5.75 - 7.00                                                                                                                               | 15.0 - 18.0       | 30.0 - 37.0   |
|                                     | OPERATING INDICATION                 | LED (Green)                                                                                                                               |                   |               |
|                                     | REMOTE ON/OFF                        | None                                                                                                                                      |                   |               |
| ISOLATION                           | INPUT-OUTPUT                         | AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)                                                    |                   |               |
|                                     | INPUT-FG                             | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)                                                    |                   |               |
|                                     | OUTPUT-FG                            | AC500V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ 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<br>NOISE<br>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 *4) *7                                                                          |                   |               |
| OTHERS                              | CASE SIZE/WEIGHT                     | 31 x 78 x 68mm [1.22 x 3.07 x 2.68 inches] (without terminal block) (W x H x D) / 150g max (with cover : 180g 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 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.

\*5 Please contact us about safety approvals for the model with option.

\*6 Please contact us about dynamic load and input response.

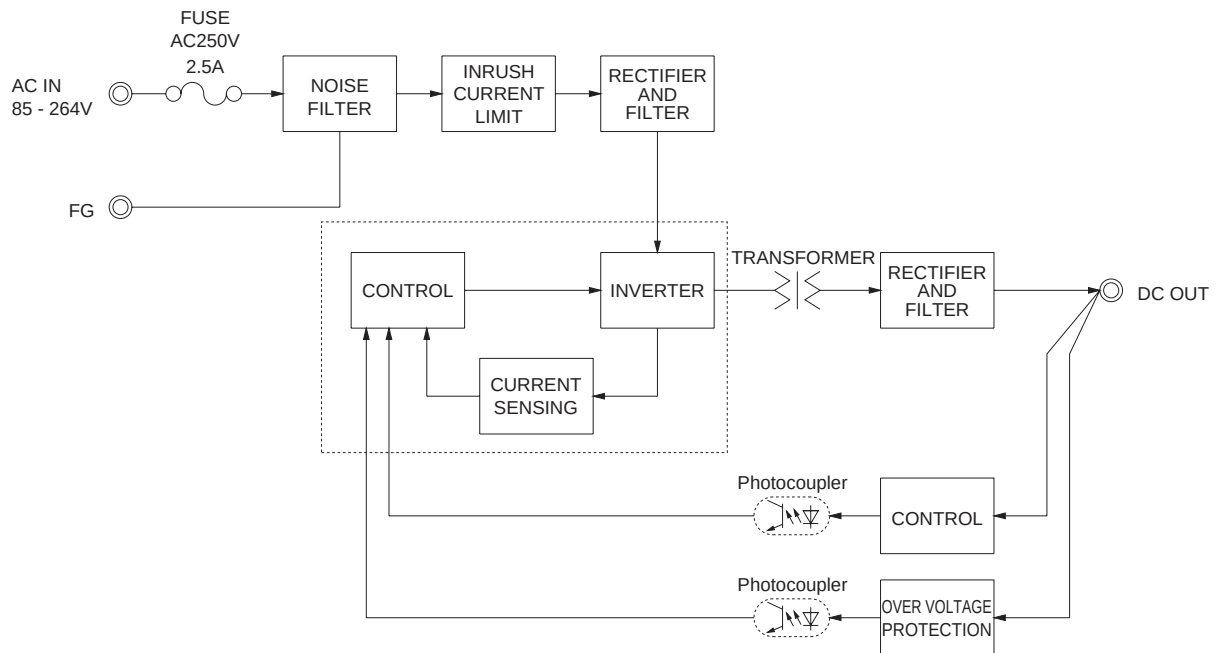
\*7 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with cover.

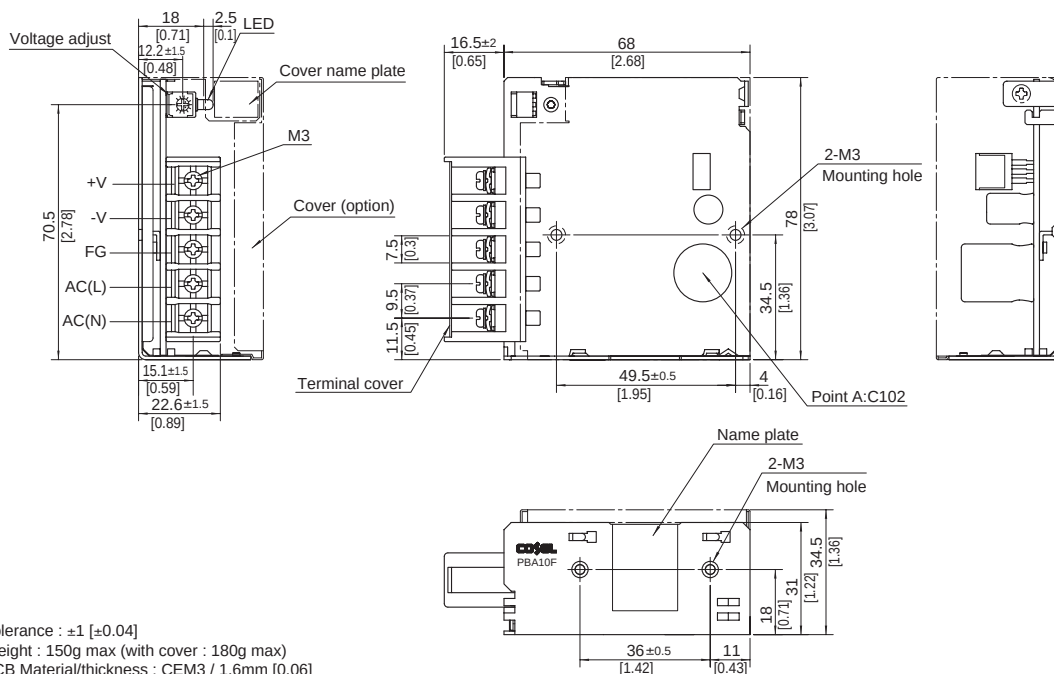
\* A sound may occur from power supply at peak loading.

## 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 :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 150g max (with cover : 180g 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.

## PBA15F

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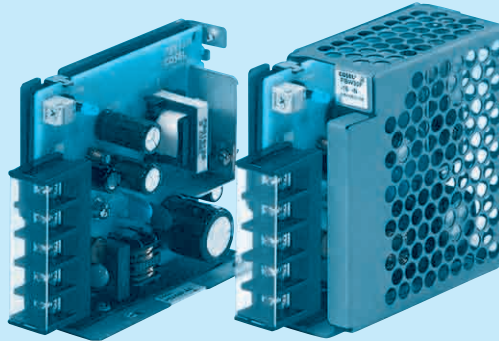
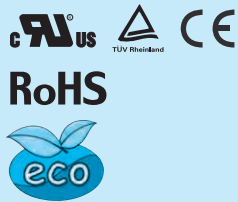
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NAC-06-472

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

Cover is optional

- 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  
E : Low leakage current  
and EMI class A  
T : Vertical terminal block  
J : Connector type  
N : with Cover  
(UL508 is acquired  
[5V, 12V, 24V])  
NI : with DIN rail and Cover  
V : Output voltage setting  
potentiometer external-  
ly

| MODEL                 | PBA15F-3R3 | PBA15F-5 | PBA15F-9 | PBA15F-12 | PBA15F-15 | PBA15F-24 | PBA15F-48 |
|-----------------------|------------|----------|----------|-----------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 9.9        | 15       | 15.3     | 15.6      | 15        | 16.8      | 16.8      |
| DC OUTPUT             | 3.3V 3A    | 5V 3A    | 9V 1.7A  | 12V 1.3A  | 15V 1A    | 24V 0.7A  | 48V 0.35A |

## SPECIFICATIONS

|                                     | MODEL                                | PBA15F-3R3                                                                                                                                 | PBA15F-5                        | PBA15F-9         | PBA15F-12     | PBA15F-15     | PBA15F-24     | PBA15F-48     |
|-------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|---------------|---------------|---------------|---------------|
| INPUT                               | VOLTAGE[V]                           | AC85 - 264 1 $\phi$ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *3)                              |                                 |                  |               |               |               |               |
|                                     | CURRENT[A]                           | ACIN 100V                                                                                                                                  | 0.30typ (Io=100%)               | 0.4typ (Io=100%) |               |               |               |               |
|                                     |                                      | ACIN 200V                                                                                                                                  | 0.15typ (Io=100%)               | 0.2typ (Io=100%) |               |               |               |               |
|                                     | FREQUENCY[Hz]                        | 50/60 (47 - 440) or DC                                                                                                                     |                                 |                  |               |               |               |               |
|                                     | EFFICIENCY[%]                        | ACIN 100V                                                                                                                                  | 68typ                           | 74typ            | 75typ         | 77typ         | 75typ         | 75typ         |
|                                     |                                      | ACIN 200V                                                                                                                                  | 68typ                           | 75typ            | 77typ         | 80typ         | 78typ         | 78typ         |
|                                     | INRUSH CURRENT[A]                    | ACIN 100V                                                                                                                                  | 15typ (Io=100%) (At cold start) |                  |               |               |               |               |
| OUTPUT                              |                                      | ACIN 200V                                                                                                                                  | 30typ (Io=100%) (At cold start) |                  |               |               |               |               |
|                                     | LEAKAGE CURRENT[ma]                  | 0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1.DENAN)                                                                 |                                 |                  |               |               |               |               |
|                                     | VOLTAGE[V]                           | 3.3                                                                                                                                        | 5                               | 9                | 12            | 15            | 24            | 48            |
|                                     | CURRENT[A]                           | 3                                                                                                                                          | 3                               | 1.7              | 1.3           | 1             | 0.7           | 0.35          |
|                                     | LINE REGULATION[mV] *6               | 20max                                                                                                                                      | 20max                           | 36max            | 48max         | 60max         | 96max         | 192max        |
|                                     | LOAD REGULATION[mV] *6               | 40max                                                                                                                                      | 40max                           | 100max           | 100max        | 120max        | 150max        | 240max        |
|                                     | RIPPLE[mVp-p]                        | 0 to +50°C *1                                                                                                                              | 80max                           | 80max            | 120max        | 120max        | 120max        | 150max        |
|                                     |                                      | -10 - 0°C *1                                                                                                                               | 140max                          | 140max           | 160max        | 160max        | 160max        | 200max        |
|                                     |                                      | 0 to +50°C *1                                                                                                                              | 120max                          | 120max           | 150max        | 150max        | 150max        | 250max        |
|                                     | RIPPLE NOISE[mVp-p]                  | -10 - 0°C *1                                                                                                                               | 160max                          | 160max           | 180max        | 180max        | 180max        | 300max        |
|                                     |                                      | 0 to +50°C                                                                                                                                 | 50max                           | 50max            | 90max         | 120max        | 150max        | 480max        |
|                                     | TEMPERATURE REGULATION[mV]           | -10 to +50°C                                                                                                                               | 60max                           | 60max            | 120max        | 150max        | 180max        | 290max        |
|                                     | DRIFT[mV] *2                         | 20max                                                                                                                                      | 20max                           | 36max            | 48max         | 60max         | 96max         | 192max        |
|                                     | 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]   | 2.85 - 3.60                                                                                                                                | 4.50 - 5.50                     | 7.50 - 10.0      | 10.0 - 13.2   | 13.2 - 18.0   | 19.2 - 27.0   | 39.0 - 53.0   |
|                                     | OUTPUT VOLTAGE SETTING[V]            | 3.30 - 3.40                                                                                                                                | 5.00 - 5.15                     | 9.00 - 9.36      | 12.00 - 12.48 | 15.00 - 15.60 | 24.00 - 24.96 | 48.00 - 49.92 |
| PROTECTION<br>CIRCUIT AND<br>OTHERS | OVERCURRENT PROTECTION               | Works over 105% of rated current and recovers automatically                                                                                |                                 |                  |               |               |               |               |
|                                     | OVERVOLTAGE PROTECTION[V]            | 4.00 - 5.25                                                                                                                                | 5.75 - 7.00                     | 11.5 - 14.0      | 15.0 - 18.0   | 20.0 - 25.0   | 30.0 - 37.0   | 58.0 - 65.0   |
|                                     | OPERATING INDICATION                 | LED (Green)                                                                                                                                |                                 |                  |               |               |               |               |
|                                     | REMOTE ON/OFF                        | None                                                                                                                                       |                                 |                  |               |               |               |               |
| ISOLATION                           | INPUT-OUTPUT                         | AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)                                                     |                                 |                  |               |               |               |               |
|                                     | INPUT-FG                             | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)                                                     |                                 |                  |               |               |               |               |
|                                     | OUTPUT-FG                            | AC500V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ 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<br>NOISE<br>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 *4) *7                                                                           |                                 |                  |               |               |               |               |
| 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 Derating is required.

\*4 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.

\*5 Please contact us about safety approvals for the model with option.

\*6 Please contact us about dynamic load and input response.

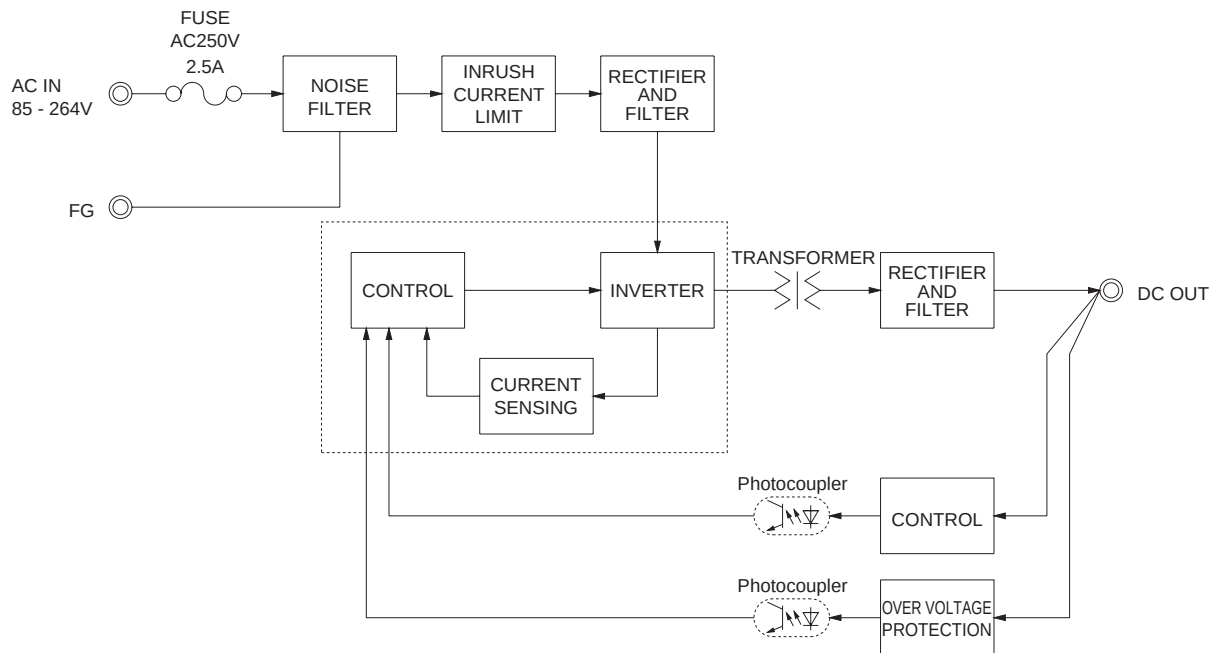
\*7 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with cover.

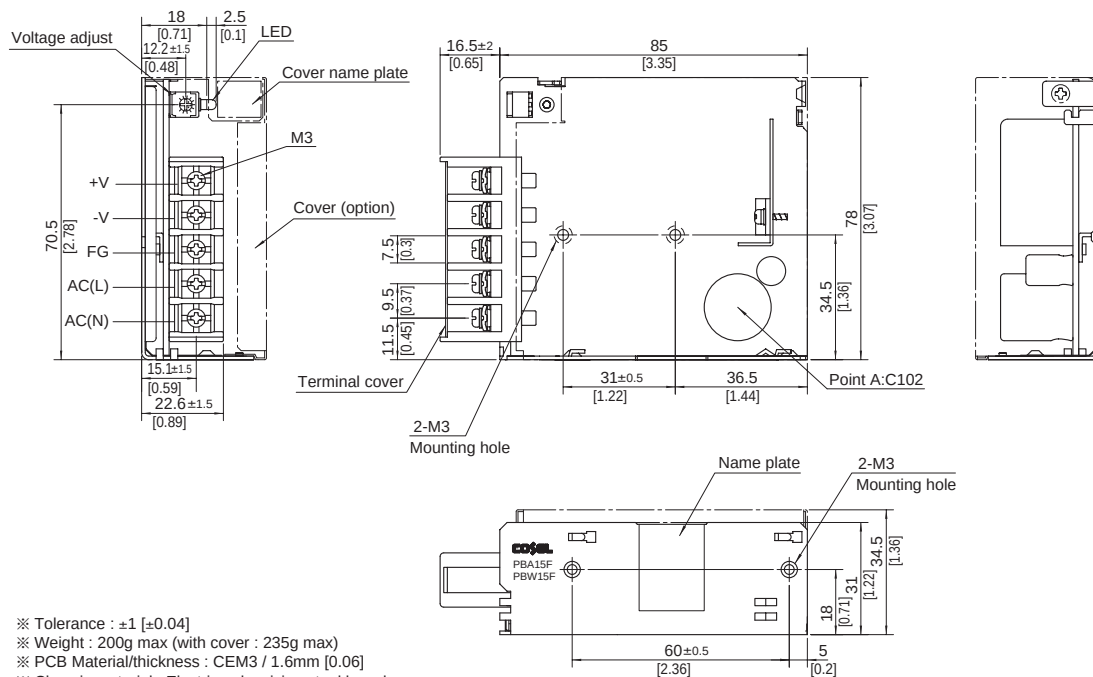
\* A sound may occur from power supply at peak loading.

## 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 :  $\pm 1$  [ $\pm 0.04$ ]
- ※ 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.

## PBA30F

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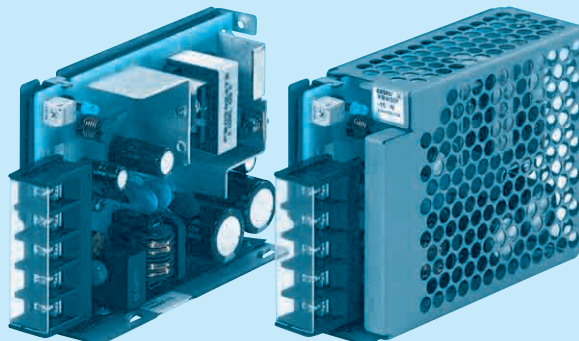
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Recommended EMI/EMC Filter  
NAC-06-472High voltage pulse noise type : NAP series  
Low leakage current type : NAM series  
\* The EMI/EMC Filter is recommended  
to connect with several devices.

- 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  
E : Low leakage current  
and EMI class A  
T : Vertical terminal block  
J : Connector type  
N : with Cover  
(UL508 is acquired  
[5V, 12V, 24V])  
NI : with DIN rail and Cover  
V : Output voltage setting  
potentiometer external-  
ly

Cover is optional

| MODEL                 | PBA30F-3R3 | PBA30F-5 | PBA30F-9 | PBA30F-12 | PBA30F-15 | PBA30F-24 | PBA30F-48 |
|-----------------------|------------|----------|----------|-----------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 19.8       | 30       | 30.6     | 30        | 30        | 31.2      | 31.2      |
| DC OUTPUT             | 3.3V 6A    | 5V 6A    | 9V 3.4A  | 12V 2.5A  | 15V 2A    | 24V 1.3A  | 48V 0.65A |

## SPECIFICATIONS

|                                     | MODEL                                | PBA30F-3R3                                                                                                                                 | PBA30F-5                        | PBA30F-9          | PBA30F-12     | PBA30F-15     | PBA30F-24     | PBA30F-48     |
|-------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------|---------------|---------------|---------------|---------------|
| INPUT                               | VOLTAGE[V]                           | AC85 - 264 1 $\phi$ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *3)                              |                                 |                   |               |               |               |               |
|                                     | CURRENT[A]                           | ACIN 100V                                                                                                                                  | 0.50typ (Io=100%)               | 0.70typ (Io=100%) |               |               |               |               |
|                                     |                                      | ACIN 200V                                                                                                                                  | 0.30typ (Io=100%)               | 0.40typ (Io=100%) |               |               |               |               |
|                                     | FREQUENCY[Hz]                        | 50/60 (47 - 440) or DC                                                                                                                     |                                 |                   |               |               |               |               |
|                                     | EFFICIENCY[%]                        | ACIN 100V                                                                                                                                  | 68typ                           | 74typ             | 75typ         | 76typ         | 78typ         | 79typ         |
|                                     |                                      | ACIN 200V                                                                                                                                  | 69typ                           | 77typ             | 77typ         | 78typ         | 81typ         | 81typ         |
|                                     | INRUSH CURRENT[A]                    | ACIN 100V                                                                                                                                  | 15typ (Io=100%) (At cold start) |                   |               |               |               |               |
| OUTPUT                              |                                      | ACIN 200V                                                                                                                                  | 30typ (Io=100%) (At cold start) |                   |               |               |               |               |
|                                     | LEAKAGE CURRENT[ma]                  | 0.30/0.65max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1.DENAN)                                                                 |                                 |                   |               |               |               |               |
|                                     | VOLTAGE[V]                           | 3.3                                                                                                                                        | 5                               | 9                 | 12            | 15            | 24            | 48            |
|                                     | CURRENT[A]                           | 6                                                                                                                                          | 6                               | 3.4               | 2.5           | 2             | 1.3           | 0.65          |
|                                     | LINE REGULATION[mV] *6               | 20max                                                                                                                                      | 20max                           | 36max             | 48max         | 60max         | 96max         | 192max        |
|                                     | LOAD REGULATION[mV] *6               | 40max                                                                                                                                      | 40max                           | 100max            | 100max        | 120max        | 150max        | 240max        |
|                                     | RIPPLE[mVp-p]                        | 0 to +50 $^{\circ}$ C *1                                                                                                                   | 80max                           | 80max             | 120max        | 120max        | 120max        | 150max        |
|                                     |                                      | -10 - 0 $^{\circ}$ C *1                                                                                                                    | 140max                          | 140max            | 160max        | 160max        | 160max        | 200max        |
|                                     |                                      | 0 to +50 $^{\circ}$ C *1                                                                                                                   | 120max                          | 120max            | 150max        | 150max        | 150max        | 250max        |
|                                     | RIPPLE NOISE[mVp-p]                  | -10 - 0 $^{\circ}$ C *1                                                                                                                    | 160max                          | 160max            | 180max        | 180max        | 180max        | 300max        |
|                                     |                                      | 0 to +50 $^{\circ}$ C                                                                                                                      | 50max                           | 50max             | 90max         | 120max        | 150max        | 480max        |
|                                     | TEMPERATURE REGULATION[mV]           | -10 to +50 $^{\circ}$ C                                                                                                                    | 60max                           | 60max             | 120max        | 150max        | 180max        | 290max        |
|                                     | DRIFT[mV] *2                         | 20max                                                                                                                                      | 20max                           | 36max             | 48max         | 60max         | 96max         | 192max        |
|                                     | 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]   | 2.85 - 3.60                                                                                                                                | 4.50 - 5.50                     | 7.50 - 10.0       | 10.0 - 13.2   | 13.2 - 18.0   | 19.2 - 27.0   | 39.0 - 53.0   |
|                                     | OUTPUT VOLTAGE SETTING[V]            | 3.30 - 3.40                                                                                                                                | 5.00 - 5.15                     | 9.00 - 9.36       | 12.00 - 12.48 | 15.00 - 15.60 | 24.00 - 24.96 | 48.00 - 49.92 |
| PROTECTION<br>CIRCUIT AND<br>OTHERS | OVERCURRENT PROTECTION               | Works over 105% of rated current and recovers automatically                                                                                |                                 |                   |               |               |               |               |
|                                     | OVERVOLTAGE PROTECTION[V]            | 4.00 - 5.25                                                                                                                                | 5.75 - 7.00                     | 11.5 - 14.0       | 15.0 - 18.0   | 20.0 - 25.0   | 30.0 - 37.0   | 58.0 - 65.0   |
|                                     | OPERATING INDICATION                 | LED (Green)                                                                                                                                |                                 |                   |               |               |               |               |
|                                     | REMOTE ON/OFF                        | None                                                                                                                                       |                                 |                   |               |               |               |               |
| ISOLATION                           | INPUT-OUTPUT                         | AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)                                                     |                                 |                   |               |               |               |               |
|                                     | INPUT-FG                             | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)                                                     |                                 |                   |               |               |               |               |
|                                     | OUTPUT-FG                            | AC500V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At Room Temperature)                                                       |                                 |                   |               |               |               |               |
| ENVIRONMENT                         | OPERATING TEMP., HUMID. AND ALTITUDE | -10 to +71 $^{\circ}$ C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max                                           |                                 |                   |               |               |               |               |
|                                     | STORAGE TEMP., HUMID. AND ALTITUDE   | -20 to +75 $^{\circ}$ 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<br>NOISE<br>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 *4) *7                                                                           |                                 |                   |               |               |               |               |
| 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 $^{\circ}$ C.

\*3 Derating is required.

\*4 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.

\*5 Please contact us about safety approvals for the model with option.

\*6 Please contact us about dynamic load and input response.

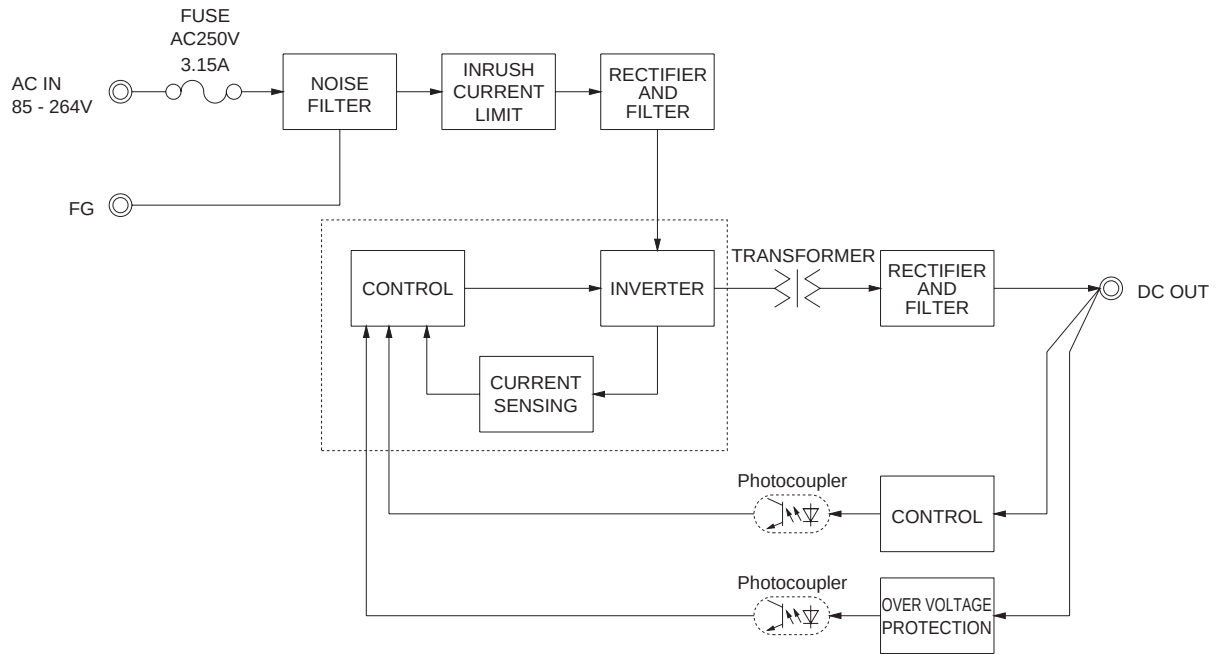
\*7 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with cover.

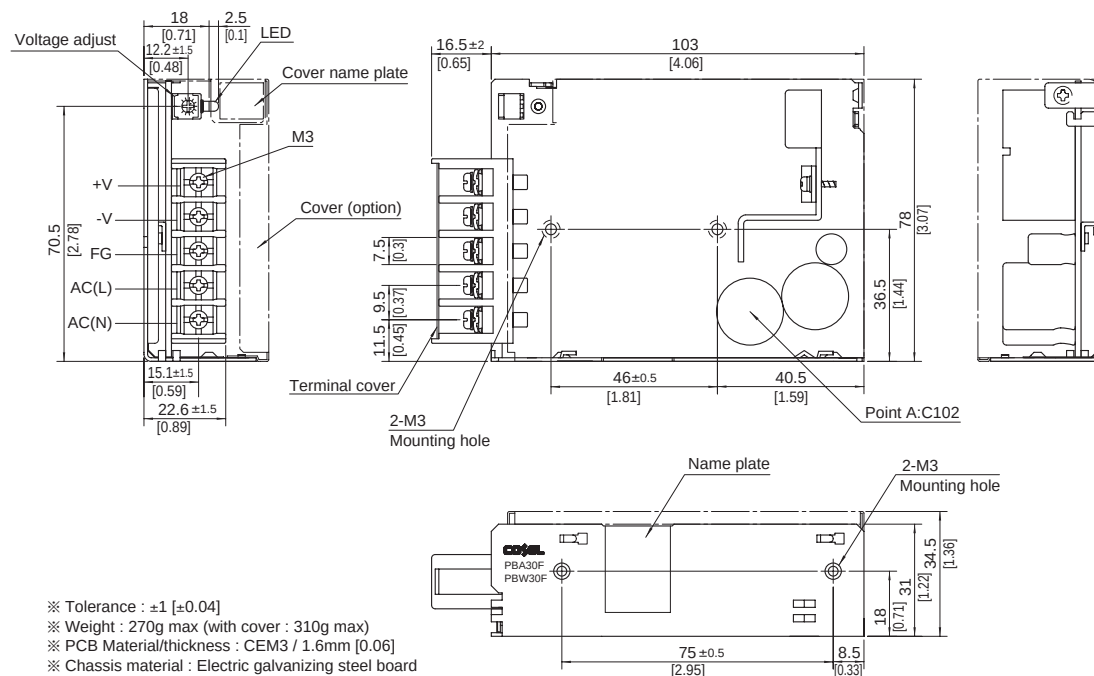
\* A sound may occur from power supply at peak loading.

## 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 :  $\pm 1$  [ $\pm 0.04$ ]
- ※ 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.

## PBA50F

PB

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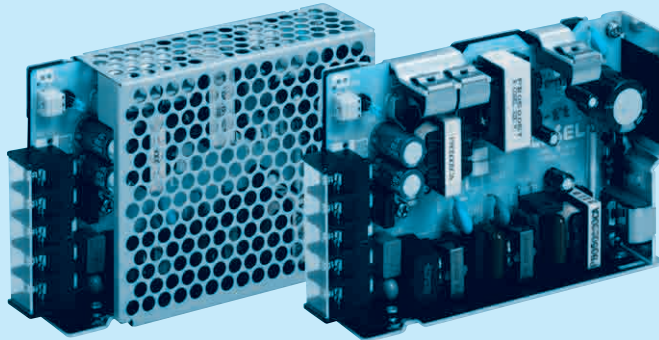
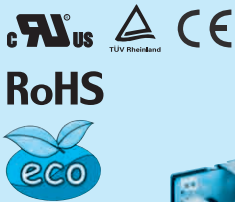
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Recommended EMI/EMC Filter  
NAC-06-472

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 Single output  
③ Output wattage  
④ Universal input  
⑤ Output voltage  
⑥ Optional \*5  
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 (Only 24V UL508 is acquired)  
NL : with DIN rail and Cover  
V : Output voltage setting potentiometer external

Cover is optional

| MODEL                 | PBA50F-3R3 | PBA50F-5 | PBA50F-9 | PBA50F-12 | PBA50F-15 | PBA50F-24 | PBA50F-36 | PBA50F-48 |
|-----------------------|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 33         | 50       | 50.4     | 51.6      | 52.5      | 52.8      | 50.4      | 52.8      |
| DC OUTPUT             | 3.3V 10A   | 5V 10A   | 9V 5.6A  | 12V 4.3A  | 15V 3.5A  | 24V 2.2A  | 36V 1.4A  | 48V 1.1A  |

## SPECIFICATIONS

| MODEL                         | PBA50F-3R3                                                                                               | PBA50F-5                                                                                                | PBA50F-9           | PBA50F-12        | PBA50F-15        | PBA50F-24        | PBA50F-36        | PBA50F-48        |
|-------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|
| VOLTAGE[V]                    | AC85 - 264 1 φ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *4) |                                                                                                         |                    |                  |                  |                  |                  |                  |
| INPUT                         | CURRENT[A]                                                                                               | ACIN 100V 0.5typ<br>ACIN 200V 0.3typ                                                                    | 0.7typ<br>0.4typ   |                  |                  |                  |                  |                  |
|                               | FREQUENCY[Hz]                                                                                            | 50/60 (47 - 63)                                                                                         |                    |                  |                  |                  |                  |                  |
|                               | EFFICIENCY[%]                                                                                            | ACIN 100V 75typ<br>ACIN 200V 76typ                                                                      | 80typ<br>82typ     | 79typ<br>81typ   | 80typ<br>82typ   | 81typ<br>83typ   | 82typ<br>84typ   | 83typ<br>85typ   |
|                               | POWER FACTOR(10=100%)                                                                                    | ACIN 100V 0.98typ<br>ACIN 200V 0.87typ                                                                  | 0.99typ<br>0.93typ |                  |                  |                  |                  |                  |
|                               | INRUSH CURRENT[A]                                                                                        | ACIN 100V 15typ (10=100%) (At cold start)<br>ACIN 200V 30typ (10=100%) (At cold start)                  |                    |                  |                  |                  |                  |                  |
|                               | LEAKAGE CURRENT[mA]                                                                                      | 0.4/0.75max (ACIN 100V/240V 60Hz, 10=100%, According to IEC60950-1.DENAN)                               |                    |                  |                  |                  |                  |                  |
| OUTPUT                        | VOLTAGE[V]                                                                                               | 3.3                                                                                                     | 5                  | 9                | 12               | 15               | 24               | 36               |
|                               | CURRENT[A]                                                                                               | 10                                                                                                      | 10                 | 5.6              | 4.3              | 3.5              | 2.2              | 1.4              |
|                               | LINE REGULATION[mV]                                                                                      | 20max                                                                                                   | 20max              | 36max            | 48max            | 60max            | 96max            | 144max           |
|                               | LOAD REGULATION[mV]                                                                                      | 40max                                                                                                   | 40max              | 100max           | 100max           | 120max           | 150max           | 240max           |
|                               | RIPPLE[mVp-p]                                                                                            | 0 to +50℃ *1 80max<br>-10 - 0℃ *1 140max                                                                | 80max<br>140max    | 120max<br>160max | 120max<br>160max | 120max<br>160max | 120max<br>160max | 150max<br>200max |
|                               | RIPPLE NOISE[mVp-p]                                                                                      | 0 to +50℃ *1 120max<br>-10 - 0℃ *1 160max                                                               | 120max<br>160max   | 150max<br>180max | 150max<br>180max | 150max<br>180max | 150max<br>180max | 250max<br>300max |
|                               | TEMPERATURE REGULATION[mV]                                                                               | 0 to +50℃ 50max<br>-10 to +50℃ 60max                                                                    | 50max<br>60max     | 90max<br>120max  | 120max<br>150max | 150max<br>180max | 240max<br>290max | 360max<br>450max |
|                               | DRIFT[mV]                                                                                                | *2 20max                                                                                                | 20max              | 36max            | 48max            | 60max            | 96max            | 144max           |
|                               | START-UP TIME[ms]                                                                                        | 350typ (ACIN 100V, 10=100%)                                                                             |                    |                  |                  |                  |                  |                  |
|                               | HOLD-UP TIME[ms]                                                                                         | 20typ (ACIN 100V, 10=100%)                                                                              |                    |                  |                  |                  |                  |                  |
| PROTECTION CIRCUIT AND OTHERS | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]                                                                       | 2.85 - 3.63                                                                                             | 4.00 - 5.50        | 7.50 - 10.0      | 10.0 - 13.2      | 13.2 - 18.0      | 19.2 - 27.0      | 28.8 - 39.6      |
|                               | OUTPUT VOLTAGE SETTING[V]                                                                                | 3.30 - 3.40                                                                                             | 5.00 - 5.15        | 9.00 - 9.36      | 12.00 - 12.48    | 15.00 - 15.60    | 24.00 - 24.96    | 35.00 - 37.44    |
|                               | OVERCURRENT PROTECTION                                                                                   | Works over 105% of rated current and recovers automatically                                             |                    |                  |                  |                  |                  |                  |
|                               | OVERVOLTAGE PROTECTION[V]                                                                                | 4.00 - 5.25                                                                                             | 5.75 - 7.00        | 11.5 - 14.0      | 15.0 - 18.0      | 20.0 - 25.0      | 30.0 - 37.0      | 43.0 - 50.0      |
| ISOLATION                     | OPERATING INDICATION                                                                                     | LED (Green)                                                                                             |                    |                  |                  |                  |                  |                  |
|                               | REMOTE ON/OFF                                                                                            | Optional (Required external power source)                                                               |                    |                  |                  |                  |                  |                  |
|                               | INPUT-OUTPUT · RC                                                                                        | *3 AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)                        |                    |                  |                  |                  |                  |                  |
| ENVIRONMENT                   | INPUT-FG                                                                                                 | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)                           |                    |                  |                  |                  |                  |                  |
|                               | OUTPUT · RC-FG                                                                                           | *3 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)                         |                    |                  |                  |                  |                  |                  |
|                               | OPERATING TEMP., HUMID. AND ALTITUDE                                                                     | -10 to +71℃ (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max                    |                    |                  |                  |                  |                  |                  |
| SAFETY AND NOISE REGULATIONS  | STORAGE TEMP., HUMID. AND ALTITUDE                                                                       | -20 to +75℃, 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                                            |                    |                  |                  |                  |                  |                  |
| OTHERS                        | 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 *6                                                                           |                    |                  |                  |                  |                  |                  |
| OTHERS                        | CASE SIZE/WEIGHT                                                                                         | 31×82×120mm [1.22×3.23×4.72 inches] (without terminal block) (W×H×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℃.

\*3 Applicable when Remote ON/OFF (optional) is added. RC is insulated with input, output and FG.

\*4 Derating is required.

\*5 Please contact us about safety approvals for the model with option.

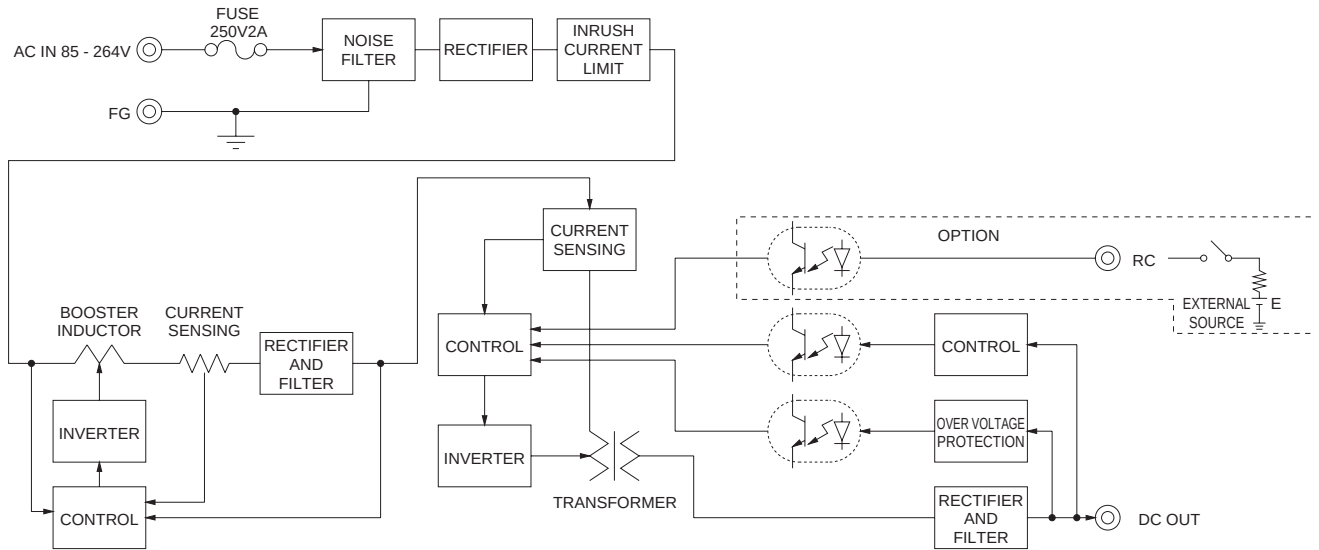
\*6 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with cover.

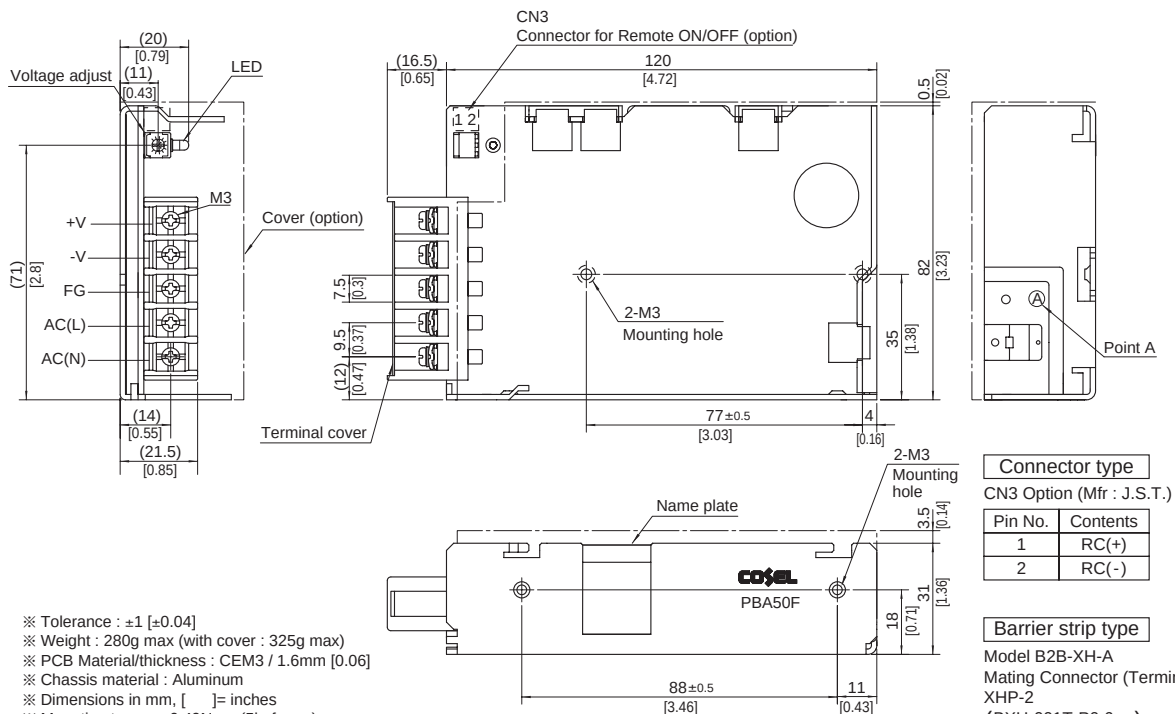
\* A sound may occur from power supply at peak loading.

## 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.



※ Tolerance :  $\pm 1$  [±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.

## PBA75F

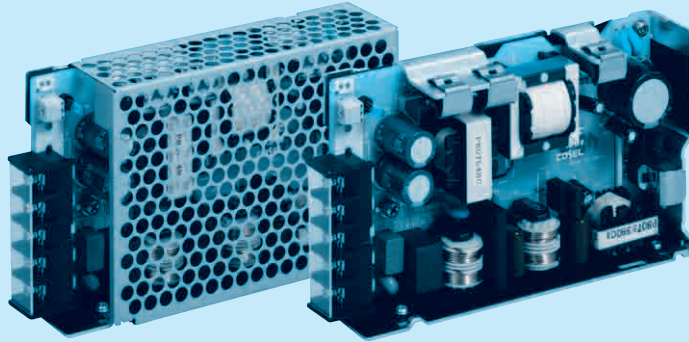
## Ordering information

PB A 75 F -5 -□

① ② ③ ④ ⑤ ⑥



RoHS

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 (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 (Only 24V UL508 is acquired)  
NL : with DIN rail and Cover  
V : Output voltage setting potentiometer external

Cover is optional

| MODEL                 | PBA75F-3R3 | PBA75F-5 | PBA75F-9 | PBA75F-12 | PBA75F-15 | PBA75F-24 | PBA75F-36 | PBA75F-48 |
|-----------------------|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 49.5       | 75       | 75.6     | 75.6      | 75        | 76.8      | 75.6      | 76.8      |
| DC OUTPUT             | 3.3V 15A   | 5V 15A   | 9V 8.4A  | 12V 6.3A  | 15V 5A    | 24V 3.2A  | 36V 2.1A  | 48V 1.6A  |

## SPECIFICATIONS

| MODEL                         |                                      | PBA75F-3R3                                                                                              | PBA75F-5           | PBA75F-9         | PBA75F-12        | PBA75F-15        | PBA75F-24        | PBA75F-36        | PBA75F-48        |
|-------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| VOLTAGE[V]                    |                                      | AC85 - 264 1φ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *4) |                    |                  |                  |                  |                  |                  |                  |
| INPUT                         | CURRENT[A]                           | ACIN 100V 0.7typ<br>ACIN 200V 0.4typ                                                                    | 1.0typ<br>0.5typ   |                  |                  |                  |                  |                  |                  |
|                               | FREQUENCY[Hz]                        | 50/60 (47 - 63)                                                                                         |                    |                  |                  |                  |                  |                  |                  |
|                               | EFFICIENCY[%]                        | ACIN 100V 77typ<br>ACIN 200V 78typ                                                                      | 81typ<br>83typ     | 80typ<br>82typ   | 81typ<br>83typ   | 82typ<br>84typ   | 83typ<br>85typ   | 84typ<br>86typ   | 84typ<br>86typ   |
|                               | POWER FACTOR(10=100%)                | ACIN 100V 0.98typ<br>ACIN 200V 0.87typ                                                                  | 0.99typ<br>0.93typ |                  |                  |                  |                  |                  |                  |
|                               | INRUSH CURRENT[A]                    | ACIN 100V 15typ (10=100%) (At cold start)<br>ACIN 200V 30typ (10=100%) (At cold start)                  |                    |                  |                  |                  |                  |                  |                  |
|                               | LEAKAGE CURRENT[mA]                  | 0.4/0.75max (ACIN 100V/240V 60Hz, 10=100%, According to IEC60950-1:DENAN)                               |                    |                  |                  |                  |                  |                  |                  |
| OUTPUT                        | VOLTAGE[V]                           | 3.3                                                                                                     | 5                  | 9                | 12               | 15               | 24               | 36               | 48               |
|                               | CURRENT[A]                           | 15                                                                                                      | 15                 | 8.4              | 6.3              | 5                | 3.2              | 2.1              | 1.6              |
|                               | LINE REGULATION[mV]                  | 20max                                                                                                   | 20max              | 36max            | 48max            | 60max            | 96max            | 144max           | 192max           |
|                               | LOAD REGULATION[mV]                  | 40max                                                                                                   | 40max              | 100max           | 100max           | 120max           | 150max           | 240max           | 240max           |
|                               | RIPPLE[mVp-p]                        | 0 to +50℃ *1 80max<br>-10 - 0℃ *1 140max                                                                | 80max<br>140max    | 120max<br>160max | 120max<br>160max | 120max<br>160max | 120max<br>160max | 150max<br>200max | 150max<br>200max |
|                               | RIPPLE NOISE[mVp-p]                  | 0 to +50℃ *1 120max<br>-10 - 0℃ *1 160max                                                               | 120max<br>160max   | 150max<br>180max | 150max<br>180max | 150max<br>180max | 150max<br>180max | 250max<br>300max | 250max<br>300max |
|                               | TEMPERATURE REGULATION[mV]           | 0 to +50℃ 50max<br>-10 to +50℃ 60max                                                                    | 50max<br>60max     | 90max<br>120max  | 120max<br>150max | 150max<br>180max | 240max<br>290max | 360max<br>450max | 480max<br>600max |
|                               | DRIFT[mV]                            | *2 20max                                                                                                | 20max              | 36max            | 48max            | 60max            | 96max            | 144max           | 192max           |
|                               | START-UP TIME[ms]                    | 350typ (ACIN 100V, 10=100%)                                                                             |                    |                  |                  |                  |                  |                  |                  |
|                               | HOLD-UP TIME[ms]                     | 20typ (ACIN 100V, 10=100%)                                                                              |                    |                  |                  |                  |                  |                  |                  |
| PROTECTION CIRCUIT AND OTHERS | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | 2.85 - 3.63                                                                                             | 4.00 - 5.50        | 7.50 - 10.0      | 10.0 - 13.2      | 13.2 - 18.0      | 19.2 - 27.0      | 28.8 - 39.6      | 39.0 - 53.0      |
|                               | OUTPUT VOLTAGE SETTING[V]            | 3.30 - 3.40                                                                                             | 5.00 - 5.15        | 9.00 - 9.36      | 12.00 - 12.48    | 15.00 - 15.60    | 24.00 - 24.96    | 36.00 - 37.44    | 48.00 - 49.92    |
|                               | OVERCURRENT PROTECTION               | Works over 105% of rated current and recovers automatically                                             |                    |                  |                  |                  |                  |                  |                  |
|                               | OVERVOLTAGE PROTECTION[V]            | 4.00 - 5.25                                                                                             | 5.75 - 7.00        | 11.5 - 14.0      | 15.0 - 18.0      | 20.0 - 25.0      | 30.0 - 37.0      | 43.0 - 50.0      | 58.0 - 65.0      |
|                               | OPERATING INDICATION                 | LED (Green)                                                                                             |                    |                  |                  |                  |                  |                  |                  |
| ISOLATION                     | REMOTE ON/OFF                        | Optional (Required external power source)                                                               |                    |                  |                  |                  |                  |                  |                  |
|                               | INPUT-OUTPUT · RC                    | *3 AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)                        |                    |                  |                  |                  |                  |                  |                  |
|                               | INPUT-FG                             | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)                           |                    |                  |                  |                  |                  |                  |                  |
| ENVIRONMENT                   | OUTPUT · RC-FG                       | *3 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)                         |                    |                  |                  |                  |                  |                  |                  |
|                               | OPERATING TEMP., HUMID. AND ALTITUDE | -10 to +71℃ (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max                    |                    |                  |                  |                  |                  |                  |                  |
|                               | STORAGE TEMP., HUMID. AND ALTITUDE   | -20 to +75℃, 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)  | 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                                |                    |                  |                  |                  |                  |                  |                  |
| OTHERS                        | HARMONIC ATTENUATOR                  | Complies with IEC61000-3-2 *6                                                                           |                    |                  |                  |                  |                  |                  |                  |
|                               | CASE SIZE/WEIGHT                     | 32×82×135mm [1.26×3.23×5.31 inches] (without terminal block) (W×H×D) / 350g max (with cover : 400g 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℃.

\*3 Applicable when Remote ON/OFF (optional) is added. RC is insulated with input, output and FG.

\*4 Derating is required.

\*5 Please contact us about safety approvals for the model with option.

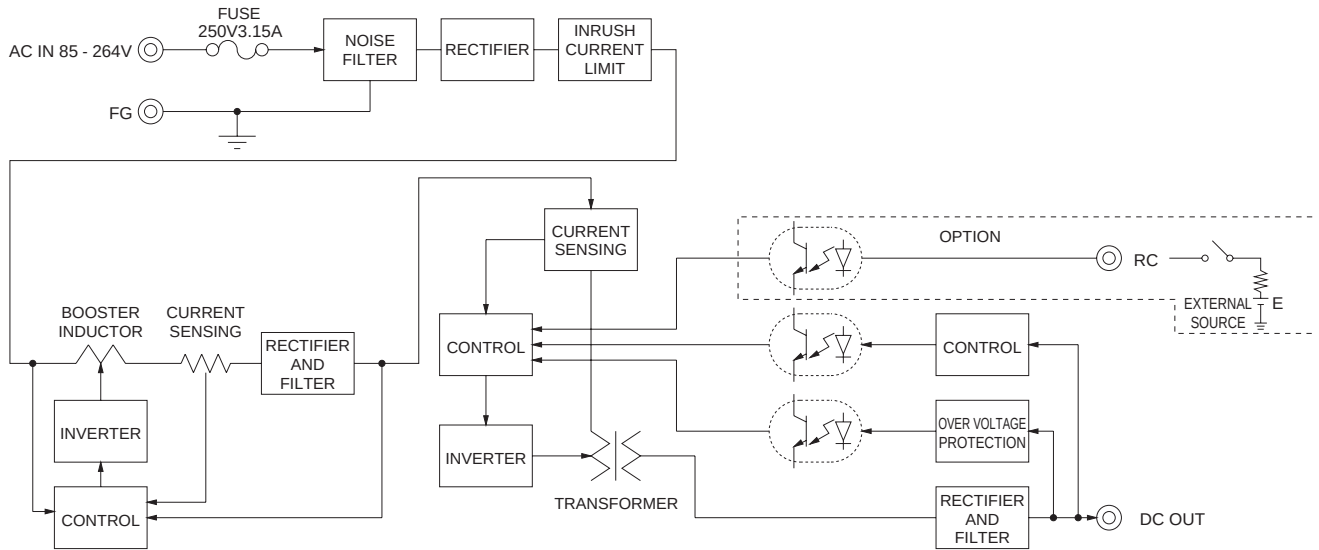
\*6 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with cover.

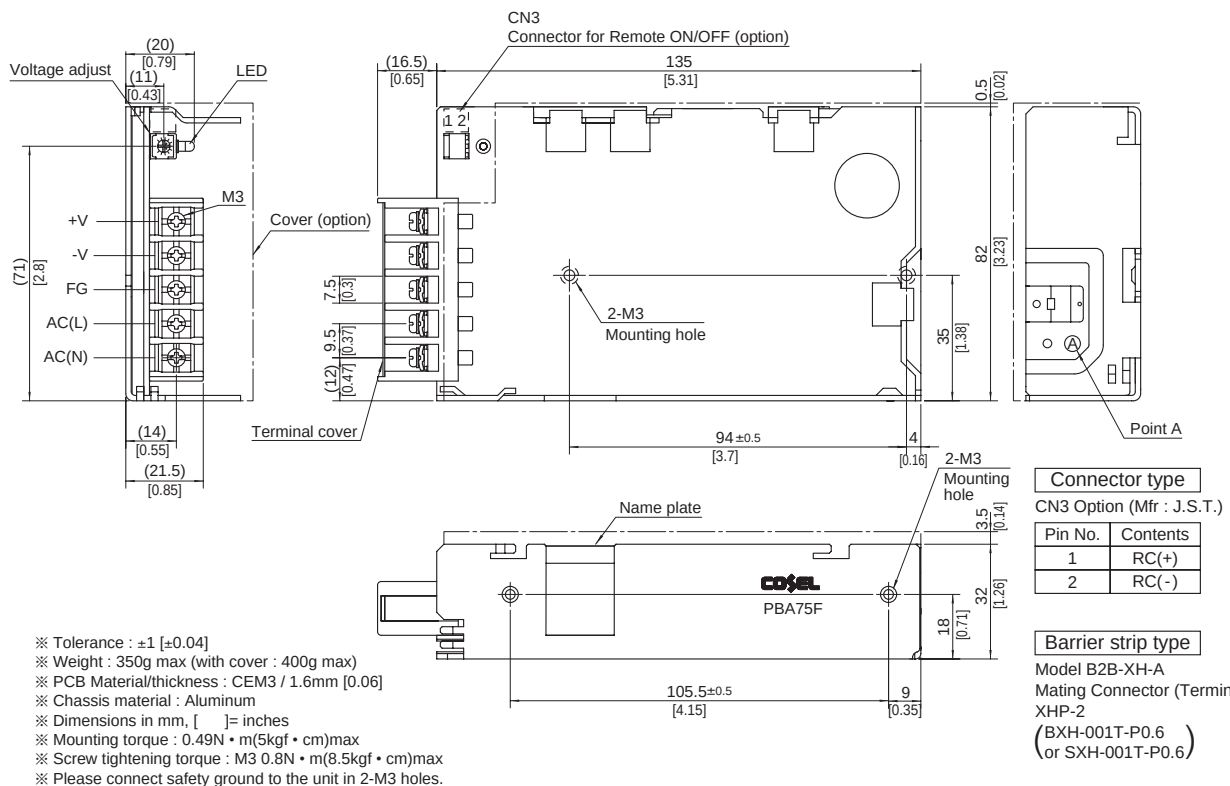
\* A sound may occur from power supply at peak loading.

## Block diagram



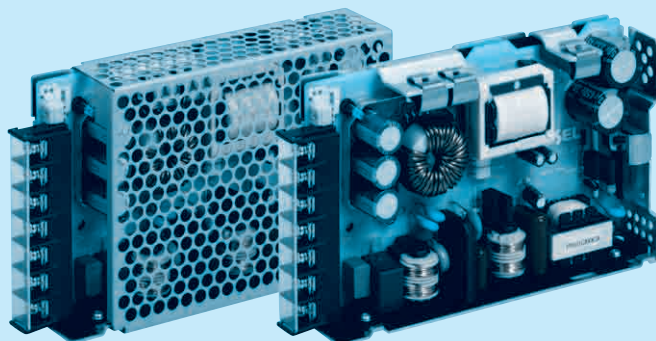
## External view

※ 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.





RoHS

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 (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 (Only -12, -15, -24, -36, -48)  
R : with Remote ON/OFF  
N : with Cover (Only 24V UL508 is acquired)  
NI : with DIN rail and Cover  
V : Output voltage setting potentiometer external

Cover is optional

| MODEL                 | PBA100F-3R3 | PBA100F-5 | PBA100F-9 | PBA100F-12 | PBA100F-15 | PBA100F-24 | PBA100F-36 | PBA100F-48 |
|-----------------------|-------------|-----------|-----------|------------|------------|------------|------------|------------|
| MAX OUTPUT WATTAGE[W] | 66          | 100       | 94.5      | 102        | 105        | 108        | 100.8      | 100.8      |
| DC OUTPUT             | 3.3V 20A    | 5V 20A    | 9V 10.5A  | 12V 8.5A   | 15V 7A     | 24V 4.5A   | 36V 2.8A   | 48V 2.1A   |

## SPECIFICATIONS

|                                    | MODEL                               | PBA100F-3R3                                                                                             | PBA100F-5                                                                     | PBA100F-9   | PBA100F-12    | PBA100F-15    | PBA100F-24    | PBA100F-36    | PBA100F-48    |
|------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------|---------------|---------------|---------------|---------------|---------------|
| INPUT                              | VOLTAGE[V]                          | AC85 - 264 1ϕ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *4) |                                                                               |             |               |               |               |               |               |
|                                    | CURRENT[A]                          | ACIN 100V                                                                                               | 0.9typ                                                                        | 1.3typ      |               |               |               |               |               |
|                                    |                                     | ACIN 200V                                                                                               | 0.5typ                                                                        | 0.7typ      |               |               |               |               |               |
|                                    | FREQUENCY[Hz]                       | 50/60 (47 - 63)                                                                                         |                                                                               |             |               |               |               |               |               |
|                                    | EFFICIENCY[%]                       | ACIN 100V                                                                                               | 77typ                                                                         | 82typ       | 80typ         | 81typ         | 83typ         | 84typ         | 84typ         |
|                                    |                                     | ACIN 200V                                                                                               | 79typ                                                                         | 84typ       | 82typ         | 83typ         | 86typ         | 86typ         | 86typ         |
|                                    | POWER FACTOR(lo=100%)               | ACIN 100V                                                                                               | 0.98typ                                                                       | 0.99typ     |               |               |               |               |               |
|                                    |                                     | ACIN 200V                                                                                               | 0.87typ                                                                       | 0.93typ     |               |               |               |               |               |
| INRUSH CURRENT[A]                  | ACIN 100V                           | 20typ (lo=100%) (At cold start)                                                                         |                                                                               |             |               |               |               |               |               |
|                                    | ACIN 200V                           | 40typ (lo=100%) (At cold start)                                                                         |                                                                               |             |               |               |               |               |               |
| LEAKAGE CURRENT[mA]                |                                     | 0.4/0.75max (ACIN 100V/240V 60Hz, lo=100%, According to IEC60950-1,DENAN)                               |                                                                               |             |               |               |               |               |               |
| OUTPUT                             | VOLTAGE[V]                          | 3.3                                                                                                     | 5                                                                             | 9           | 12            | 15            | 24            | 36            | 48            |
|                                    | CURRENT[A]                          | 20                                                                                                      | 20                                                                            | 10.5        | 8.5           | 7             | 4.5           | 2.8           | 2.1           |
|                                    | LINE REGULATION[mV]                 | 20max                                                                                                   | 20max                                                                         | 36max       | 48max         | 60max         | 96max         | 144max        | 192max        |
|                                    | LOAD REGULATION[mV]                 | 40max                                                                                                   | 40max                                                                         | 100max      | 100max        | 120max        | 150max        | 240max        | 240max        |
|                                    | RIPPLE[mVp-p]                       | 0 to +50℃ *1                                                                                            | 80max                                                                         | 80max       | 120max        | 120max        | 120max        | 150max        | 150max        |
|                                    |                                     | -10 - 0℃ *1                                                                                             | 140max                                                                        | 140max      | 160max        | 160max        | 160max        | 200max        | 200max        |
|                                    | RIPPLE NOISE[mVp-p]                 | 0 to +50℃ *1                                                                                            | 120max                                                                        | 120max      | 150max        | 150max        | 150max        | 250max        | 250max        |
|                                    |                                     | -10 - 0℃ *1                                                                                             | 160max                                                                        | 160max      | 180max        | 180max        | 180max        | 300max        | 300max        |
|                                    | TEMPERATURE REGULATION[mV]          | 0 to +50℃                                                                                               | 50max                                                                         | 50max       | 90max         | 120max        | 150max        | 240max        | 360max        |
|                                    |                                     | -10 to +50℃                                                                                             | 60max                                                                         | 60max       | 120max        | 150max        | 180max        | 290max        | 450max        |
|                                    | DRIFT[mV]                           | *2                                                                                                      | 20max                                                                         | 20max       | 36max         | 48max         | 60max         | 96max         | 144max        |
| START-UP TIME[ms]                  |                                     | 350typ(ACIN 100V, lo=100%)                                                                              |                                                                               |             |               |               |               |               |               |
| HOLD-UP TIME[ms]                   |                                     | 20typ (ACIN 100V, lo=100%)                                                                              |                                                                               |             |               |               |               |               |               |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] |                                     | 2.85 - 3.63                                                                                             | 4.00 - 5.50                                                                   | 7.50 - 10.0 | 10.0 - 13.2   | 13.2 - 18.0   | 19.2 - 27.0   | 28.8 - 39.6   | 39.0 - 53.0   |
| OUTPUT VOLTAGE SETTING[V]          |                                     | 3.20 - 3.40                                                                                             | 5.00 - 5.15                                                                   | 9.00 - 9.36 | 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 and recovers automatically                                             |                                                                               |             |               |               |               |               |               |
|                                    | OVERVOLTAGE PROTECTION[V]           | 4.00 - 5.25                                                                                             | 5.75 - 7.00                                                                   | 11.5 - 14.0 | 15.0 - 18.0   | 20.0 - 25.0   | 30.0 - 37.0   | 43.0 - 50.0   | 58.0 - 65.0   |
|                                    | OPERATING INDICATION                | LED (Green)                                                                                             |                                                                               |             |               |               |               |               |               |
|                                    | REMOTE SENSING                      | Optional (Only -3R3, -5 Option -K)                                                                      |                                                                               |             |               |               |               |               |               |
| REMOTE ON/OFF                      |                                     | Optional (Required external power source)                                                               |                                                                               |             |               |               |               |               |               |
| ISOLATION                          | INPUT-OUTPUT · RC                   | *3                                                                                                      | 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-FG                      | *3                                                                                                      | AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)  |             |               |               |               |               |               |
| ENVIRONMENT                        | OPERATING TEMP.,HUMID.AND ALTITUDE  | -10 to +71℃ (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max                    |                                                                               |             |               |               |               |               |               |
|                                    | STORAGE TEMP.,HUMID.AND ALTITUDE    | -20 to +75℃, 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 *6                                                                           |                                                                               |             |               |               |               |               |               |
| OTHERS                             | CASE SIZE/WEIGHT                    | 32×93×147mm [1.26×3.66×5.79 inches] (without terminal block) (W×H×D) / 440g max (with cover : 500g 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℃.

\*3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and FG.

\*4 Derating is required.

\*5 Please contact us about safety approvals for the model with option.

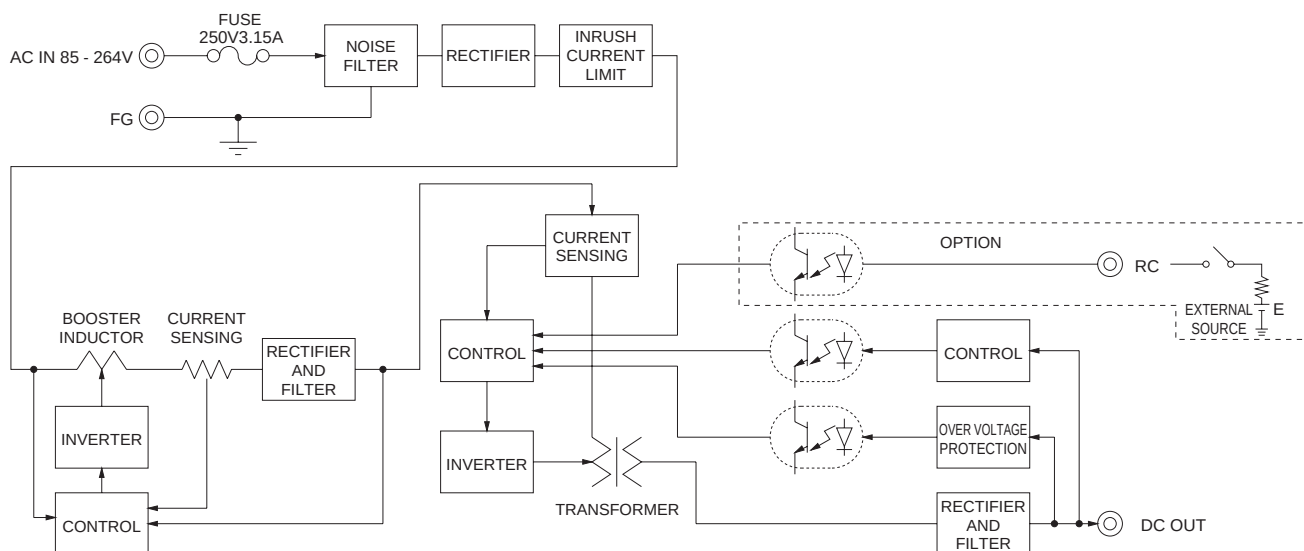
\*6 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with cover.

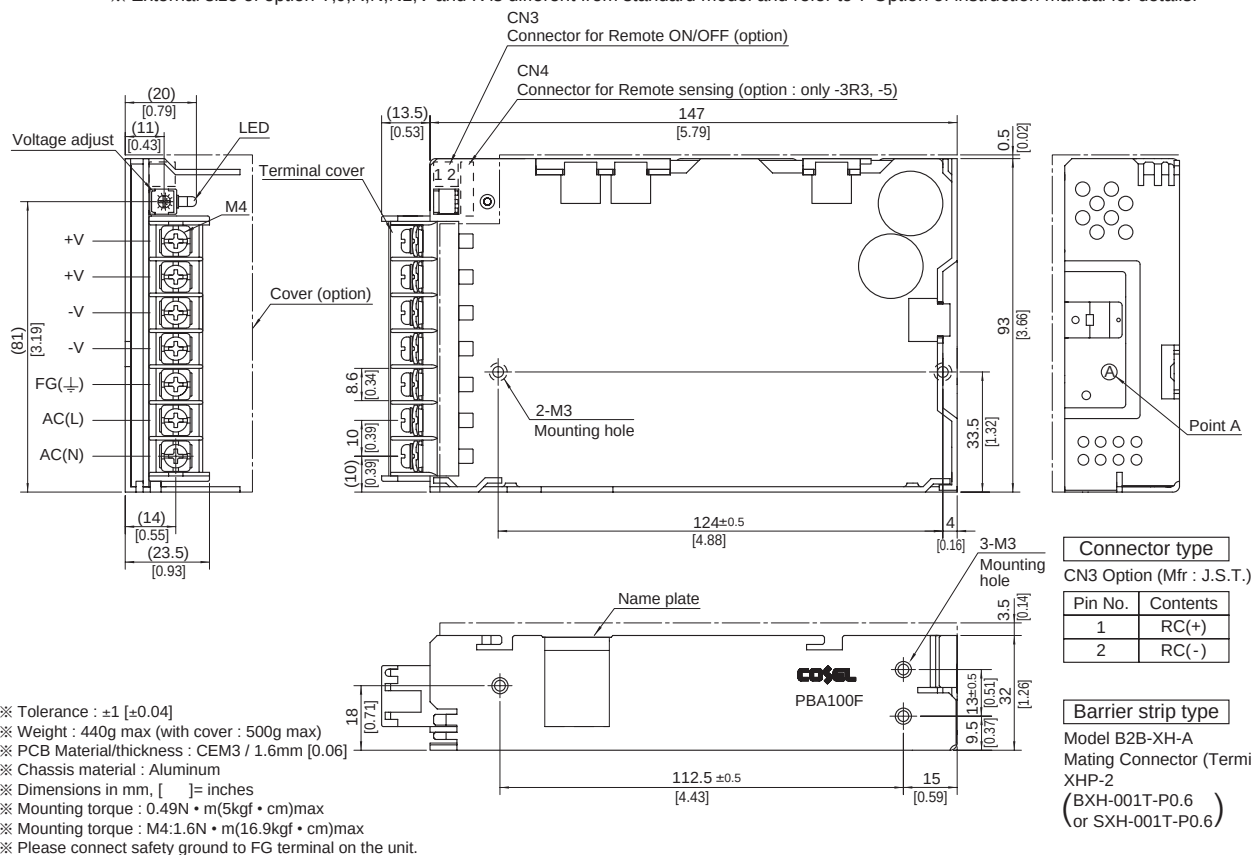
\* A sound may occur from power supply at peak loading.

## Block diagram



## External view

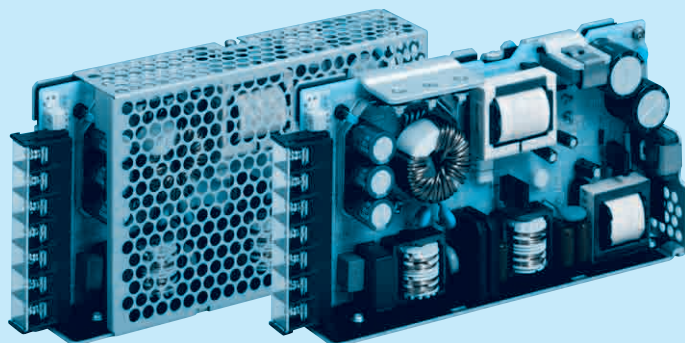
※ External size of option T,J,R,N,N1,V and K is different from standard model and refer to 7 Option of instruction manual for details.



※ Tolerance : ±1 [±0.04]  
 ※ Weight : 440g max (with cover : 500g max)  
 ※ PCB Material/thickness : CEM3 / 1.6mm [0.06]  
 ※ Chassis material : Aluminum  
 ※ Dimensions in mm, [ ] = inches  
 ※ Mounting torque : 0.49N · m(5kgf · cm)max  
 ※ Mounting torque : M4:1.6N · m(16.9kgf · cm)max  
 ※ Please connect safety ground to FG terminal on the unit.



RoHS

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 (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 (Only -12, -15, -24, -36, -48)  
R : with Remote ON/OFF  
N : with Cover (Only 24V UL508 is acquired)  
NI : with DIN rail and Cover  
V : Output voltage setting potentiometer external

Cover is optional

| MODEL                 | PBA150F-3R3 | PBA150F-5 | PBA150F-9 | PBA150F-12 | PBA150F-15 | PBA150F-24 | PBA150F-36 | PBA150F-48 |
|-----------------------|-------------|-----------|-----------|------------|------------|------------|------------|------------|
| MAX OUTPUT WATTAGE[W] | 99          | 150       | 150.3     | 156        | 150        | 156        | 154.8      | 158.4      |
| DC OUTPUT             | 3.3V 30A    | 5V 30A    | 9V 16.7A  | 12V 13A    | 15V 10A    | 24V 6.5A   | 36V 4.3A   | 48V 3.3A   |

## SPECIFICATIONS

|                                    | MODEL                                                                                                                          | PBA150F-3R3                                                                                              | PBA150F-5                                                                     | PBA150F-9   | PBA150F-12  | PBA150F-15  | PBA150F-24  | PBA150F-36  | PBA150F-48  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| INPUT                              | VOLTAGE[V]                                                                                                                     | AC85 - 264 1 ϕ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *4) |                                                                               |             |             |             |             |             |             |
|                                    | CURRENT[A]                                                                                                                     | ACIN 100V                                                                                                | 1.3typ                                                                        | 2.0typ      |             |             |             |             |             |
|                                    |                                                                                                                                | ACIN 200V                                                                                                | 0.7typ                                                                        | 1.0typ      |             |             |             |             |             |
|                                    | FREQUENCY[Hz]                                                                                                                  | 50/60 (47 - 63)                                                                                          |                                                                               |             |             |             |             |             |             |
|                                    | EFFICIENCY[%]                                                                                                                  | ACIN 100V                                                                                                | 80typ                                                                         | 83typ       | 82typ       | 83typ       | 84typ       | 85typ       | 85typ       |
|                                    |                                                                                                                                | ACIN 200V                                                                                                | 82typ                                                                         | 86typ       | 85typ       | 86typ       | 87typ       | 88typ       | 88typ       |
|                                    | POWER FACTOR(lo=100%)                                                                                                          | ACIN 100V                                                                                                | 0.98typ                                                                       | 0.99typ     |             |             |             |             |             |
|                                    |                                                                                                                                | ACIN 200V                                                                                                | 0.87typ                                                                       | 0.93typ     |             |             |             |             |             |
| INRUSH CURRENT[A]                  | ACIN 100V                                                                                                                      | 20typ (lo=100%) (At cold start)                                                                          |                                                                               |             |             |             |             |             |             |
|                                    | ACIN 200V                                                                                                                      | 40typ (lo=100%) (At cold start)                                                                          |                                                                               |             |             |             |             |             |             |
|                                    | LEAKAGE CURRENT[ma]                                                                                                            | 0.4/0.75max (ACIN 100V/240V 60Hz, lo=100%, According to IEC60950-1,DENAN)                                |                                                                               |             |             |             |             |             |             |
| OUTPUT                             | VOLTAGE[V]                                                                                                                     | 3.3                                                                                                      | 5                                                                             | 9           | 12          | 15          | 24          | 36          | 48          |
|                                    | CURRENT[A]                                                                                                                     | 30                                                                                                       | 30                                                                            | 16.7        | 13          | 10          | 6.5         | 4.3         | 3.3         |
|                                    | LINE REGULATION[mV]                                                                                                            | 20max                                                                                                    | 20max                                                                         | 36max       | 48max       | 60max       | 96max       | 144max      | 192max      |
|                                    | LOAD REGULATION[mV]                                                                                                            | 40max                                                                                                    | 40max                                                                         | 100max      | 100max      | 120max      | 150max      | 240max      | 240max      |
|                                    | RIPPLE[mVp-p]                                                                                                                  | 0 to +50℃ *1                                                                                             | 80max                                                                         | 80max       | 120max      | 120max      | 120max      | 150max      | 150max      |
|                                    |                                                                                                                                | -10 - 0℃ *1                                                                                              | 140max                                                                        | 140max      | 160max      | 160max      | 160max      | 200max      | 200max      |
|                                    | RIPPLE NOISE[mVp-p]                                                                                                            | 0 to +50℃ *1                                                                                             | 120max                                                                        | 120max      | 150max      | 150max      | 150max      | 250max      | 250max      |
|                                    |                                                                                                                                | -10 - 0℃ *1                                                                                              | 160max                                                                        | 160max      | 180max      | 180max      | 180max      | 300max      | 300max      |
|                                    | TEMPERATURE REGULATION[mV]                                                                                                     | 0 to +50℃                                                                                                | 50max                                                                         | 50max       | 90max       | 120max      | 150max      | 240max      | 360max      |
|                                    |                                                                                                                                | -10 to +50℃                                                                                              | 60max                                                                         | 60max       | 120max      | 150max      | 180max      | 290max      | 450max      |
|                                    | DRIFT[mV]                                                                                                                      | *2                                                                                                       | 20max                                                                         | 20max       | 36max       | 48max       | 60max       | 96max       | 144max      |
|                                    | START-UP TIME[ms]                                                                                                              | 350typ(ACIN 100V, lo=100%)                                                                               |                                                                               |             |             |             |             |             |             |
|                                    | HOLD-UP TIME[ms]                                                                                                               | 20typ (ACIN 100V, lo=100%)                                                                               |                                                                               |             |             |             |             |             |             |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 2.85 - 3.63    4.00 - 5.50    7.50 - 10.0    10.0 - 13.2    13.2 - 18.0    19.2 - 27.0    28.8 - 39.6    39.0 - 53.0           |                                                                                                          |                                                                               |             |             |             |             |             |             |
| OUTPUT VOLTAGE SETTING[V]          | 3.30 - 3.40    5.00 - 5.15    9.00 - 9.36    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 and recovers automatically                                              |                                                                               |             |             |             |             |             |             |
|                                    | OVERVOLTAGE PROTECTION[V]                                                                                                      | 4.00 - 5.25                                                                                              | 5.75 - 7.00                                                                   | 11.5 - 14.0 | 15.0 - 18.0 | 20.0 - 25.0 | 30.0 - 37.0 | 43.0 - 50.0 | 58.0 - 65.0 |
|                                    | OPERATING INDICATION                                                                                                           | LED (Green)                                                                                              |                                                                               |             |             |             |             |             |             |
|                                    | REMOTE SENSING                                                                                                                 | Optional (Only -3R3, -5 Option -K)                                                                       |                                                                               |             |             |             |             |             |             |
| ISOLATION                          | REMOTE ON/OFF                                                                                                                  | Optional (Required external power source)                                                                |                                                                               |             |             |             |             |             |             |
|                                    | INPUT-OUTPUT · RC                                                                                                              | *3                                                                                                       | 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-FG                                                                                                                 | *3                                                                                                       | AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)  |             |             |             |             |             |             |
| ENVIRONMENT                        | OPERATING TEMP.,HUMID.AND ALTITUDE                                                                                             | -10 to +71℃ (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max                     |                                                                               |             |             |             |             |             |             |
|                                    | STORAGE TEMP.,HUMID.AND ALTITUDE                                                                                               | -20 to +75℃, 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 *6                                                                            |                                                                               |             |             |             |             |             |             |
| OTHERS                             | CASE SIZE/WEIGHT                                                                                                               | 34×93×168mm [1.34×3.66×6.61 inches] (without terminal block) (W×H×D) / 560g max (with cover : 630g 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℃.

\*3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and FG.

\*4 Derating is required.

\*5 Please contact us about safety approvals for the model with option.

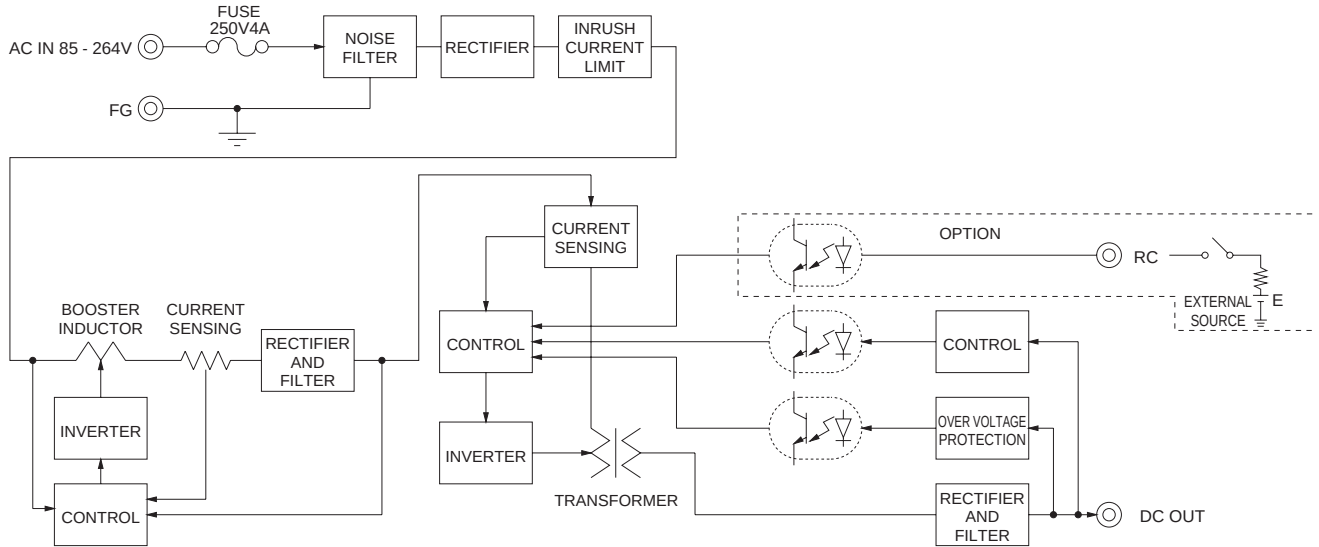
\*6 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with cover.

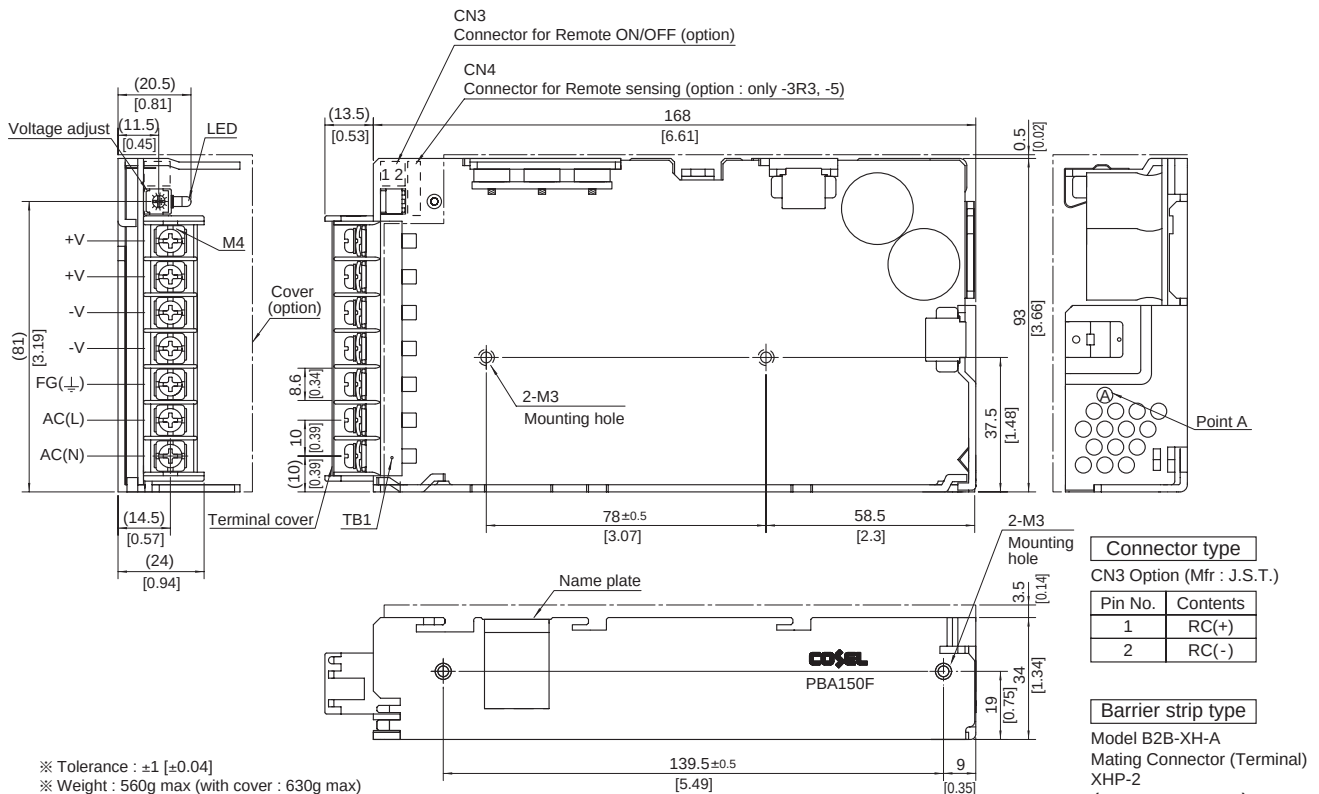
\* A sound may occur from power supply at peak loading.

## Block diagram



## External view

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



※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]  
 ※ Weight : 560g max (with cover : 630g max)  
 ※ PCB Material/thickness : CEM3 / 1.6mm [0.06]  
 ※ Chassis material : Aluminum  
 ※ Dimensions in mm, [ ] = inches  
 ※ Mounting torque : 0.49N • m (5kgf • cm) max  
 ※ Mounting torque : M4:1.6N • m (16.9kgf • cm) max  
 ※ Keep drawing current per pin below 20A for TB1.

# Mouser Electronics

Authorized Distributor

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## Cosel:

[N-PBA15-J/T](#) [F-PBA100-2](#) [N-PBA10-J/T](#) [N-PBA50](#) [F-PBA50-2](#) [N-PBA75-J/T](#) [F-PBA30-1](#) [F-PPBA30-1](#) [N-PBA10](#)  
[F-PPBA100-1](#) [F-PBA75-1](#) [F-PBA150-2](#) [F-PBA10-1](#) [N-PBA50-J/T](#) [N-PBA15](#) [N-PBA100](#) [F-PBA30-2](#) [N-PBA30](#) [N-](#)  
[PBA100-J/T](#) [N-PBA30-J/T](#) [N-PBA75](#) [F-PBA75-2](#) [F-PBA15-1](#) [N-PBA150](#) [F-PPBA75-1](#) [F-PBA15-2](#) [F-PBA100-1](#) [F-](#)  
[PPBA50-1](#) [F-PBA10-2](#) [F-PBA150-1](#) [F-PPBA15-1](#) [F-PBA50-1](#) [N-PBA150-J/T](#) [PBA100F-5-T](#) [PBA100F-5-C](#) [PBA30F-](#)  
[24-JVN](#) [PBA100F-3R3-CMN](#) [PBA100F-15-TN](#) [PBA100F-36-GJ](#) [PBA30F-9-JN](#) [PBA30F-48](#) [PBA75F-5-T](#) [PBA75F-](#)  
[15-RVN](#) [PBA15F-3R3-N](#) [PBA75F-3R3-EN](#) [PBA75F-24-J](#) [PBA75F-48-CT](#) [PBA150F-24-RN1](#) [PBA50F-15-GN](#)  
[PBA50F-36-R](#) [PBA150F-15-RN](#) [PBA10F-24-EN](#) [PBA150F-5-CEN](#) [PBA150F-12-CN](#) [PBA15F-5](#) [PBA50F-12-R](#)  
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[PBA100F-12-RT](#) [PBA150F-15-CN1](#) [PBA50F-24-CEN](#) [PBA30F-48-J](#) [PBA10F-5-N](#) [PBA100F-9-T](#) [PBA100F-12-TN](#)  
[PBA150F-48-D40N](#) [PBA150F-48-RT](#) [PBA30F-24-CT](#) [PBA15F-3R3-E](#) [PBA150F-24-C](#) [PBA15F-48-GN](#) [PBA150F-24-](#)  
[CTN](#) [PBA150F-5-T](#) [PBA75F-15-CRN](#) [PBA150F-5-VN](#) [PBA100F-36-GTN](#) [PBA100F-12-CN1](#) [PBA50F-15](#) [PBA100F-](#)  
[24-R](#) [PBA150F-24-GTN](#) [PBA10F-24-J](#) [PBA50F-9-TN](#) [PBA30F-5-GN](#) [PBA50F-48-R](#) [PBA75F-36-C](#) [PBA30F-12-V](#)  
[PBA50F-5-R](#) [PBA150F-3R3-T](#) [PBA150F-24-JN1](#) [PBA30F-3R3-CN](#) [PBA75F-36-T](#) [PBA150F-3R3-GR](#) [PBA150F-24-E](#)  
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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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