

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

| 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 |
|--|----------------------------|----------------|--|--|--|
| | VOLTAGE[V] | | AC85 - 264 1 \ or DC110 - 370 (AC5 | 0 or DC70 Please refer to the instructi | on manual 2.1 Input voltage *3) |
| | | ACIN 100V | 0.30typ (lo=100%) | | |
| | CURRENT[A] | ACIN 200V | 0.20typ (lo=100%) | | |
| UTPUT EFF IPUT EFF INRI LEA VOI CUI LIN LOA RIP CUI LIN LOA RIP CUI TEMP BOLATION THERS AFETY AND OUT SOLATION INP OUT SOLATION INP OUT OUT OUT OUT OUT OUT OUT OUT OUT OUT | FREQUENCY[Hz] | | 50/60 (47 - 440) or DC | | |
| IPUT | | ACIN 100V | 74typ | 76typ | 77typ |
| | EFFICIENCY[%] | ACIN 200V | 74typ | 76typ | 77typ |
| | | ACIN 100V | 15typ (lo=100%) | | |
| | INRUSH CURRENT[A] | ACIN 200V | 30typ (lo=100%) | | |
| | LEAKAGE CURREN | T[mA] | 0.15/0.30max (ACIN 100V/240V 60Hz | , Io=100%, According to IEC60950-1,I | DENAN) |
| | VOLTAGE[V] | | 5 | 12 | 24 |
| | CURRENT[A] | | 2 | 0.9 | 0.5 |
| | LINE REGULATION | mV] *6 | 20max | 48max | 96max |
| | LOAD REGULATION | I[mV] *6 | 40max | 100max | 150max |
| | RIPPLE[mVp-p] | 0 to +50°C * 1 | 80max | 120max | 120max |
| | RIPPLE[mvp-p] | -10 - 0℃ *1 | 140max | 160max | 160max |
| | | 0 to +50°C *1 | 120max | 150max | 150max |
| UTPUT | RIPPLE NOISE[mVp-p] | -10 - 0℃ *1 | 160max | 180max | 180max |
| | | 0 to +50℃ | 50max | 120max | 240max |
| | TEMPERATURE REGULATION[mV] | -10 to +50℃ | 60max | 150max | 290max |
| | DRIFT[mV] | *2 | 20max | 48max | 96max |
| | START-UP TIME[ms] |] | 200typ(ACIN 100V, Io=100%) *Start-up time | e is 700ms typ for less than 1 minute of applyin | ig input again from turning off the input volt |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 100V, Io=100%) | | |
| | OUTPUT VOLTAGE ADJUSTMEN | T RANGE[V] | 4.50 - 5.50 | 10.0 - 13.2 | 19.2 - 27.0 |
| | OUTPUT VOLTAGE SET | TTING[V] | 5.00 - 5.15 | 12.00 - 12.48 | 24.00 - 24.96 |
| | OVERCURRENT PROT | TECTION | Works over 105% of rated current and | recovers automatically | |
| | OVERVOLTAGE PROTEC | CTION[V] | 5.75 - 7.00 | 15.0 - 18.0 | 30.0 - 37.0 |
| | OPERATING INDICA | TION | LED (Green) | | |
| - | REMOTE ON/OFF | | None | | |
| | INPUT-OUTPUT | | AC3,000V 1minute, Cutoff current = 1 | 0mA, DC500V 50M Ω min (At Room Te | emperature) |
| OLATION | INPUT-FG | | AC2,000V 1minute, Cutoff current = 1 | 0mA, DC500V 50M $_\Omega$ min (At Room Te | emperature) |
| | OUTPUT-FG | | AC500V 1minute, Cutoff current = 25r | mA, DC500V 50M Ω min (At Room Tem | nperature) |
| | OPERATING TEMP., HUMID.AND | O ALTITUDE | -10 to +71°C (Required Derating), 20 | - 90%RH (Non condensing) 3,000m (1 | 0,000feet) max |
| | STORAGE TEMP., HUMID.AND | ALTITUDE | -20 to +75°C, 20 - 90%RH (Non conde | 0 | |
| | VIBRATION | | 10 - 55Hz, 19.6m/s ² (2G), 3minutes p | eriod, 60minutes each along X, Y and | Z axis |
| | IMPACT | | 196.1m/s ² (20G), 11ms, once each X, | Y and Z axis | |
| AFETY AND | AGENCY APPROVALS (At onl | y AC input) | UL60950-1, C-UL(CSA60950-1), EN6 | 0950-1, EN50178 Complies with DEN- | AN |
| IOISE | CONDUCTED NOISE | | Complies with FCC Part15 classB, VC | | 022-B |
| EGULATIONS | HARMONIC ATTENU | JATOR | Complies with IEC61000-3-2 (Not built | t-in to active filter *4) *7 | |
| | CASE SIZE/WEIGHT | - | 31 × 78 × 68mm [1.22 × 3.07 × 2.68 inc | hes] (without terminal block) (W×H×I | D) / 150g max (with cover : 180g ma |
| /IIIEng | COOLING METHOD | | Convection | | |

Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN *1 :RM101).

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.

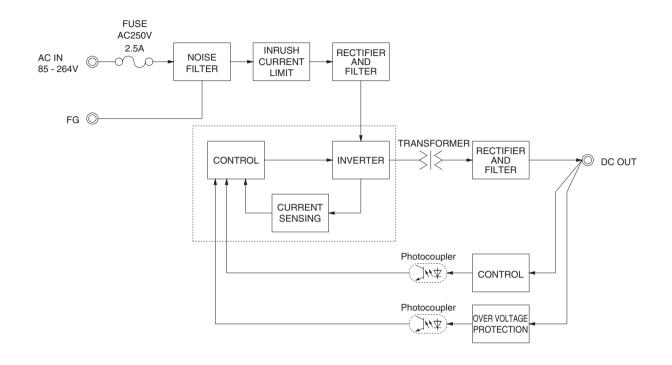
*6 Please contact us about dynamic load and input response.
*7 Please contact us about class C.

* Parallel operation with other model is not possible.

* *

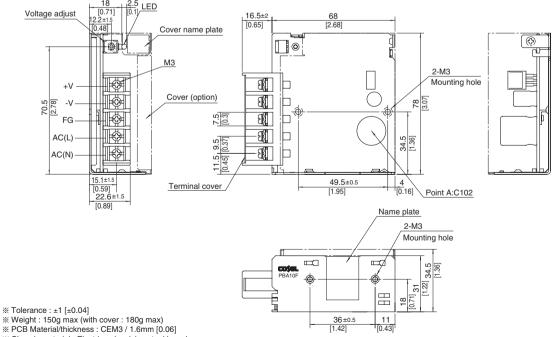
Derating is required when operated with cover. A sound may occur from power supply at peak loading.

Block diagram



External view

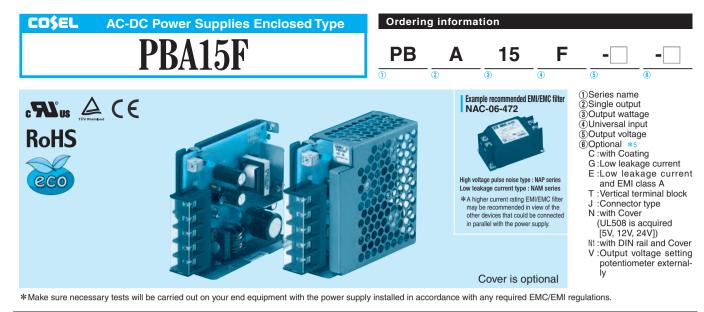
% External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



- % 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.



| 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 |

| | MODEL | | PBA15F-3R3 | PBA15F-5 | PBA15F-9 | PBA15F-12 | PBA15F-15 | PBA15F-24 | PBA15F-48 |
|--|----------------------------|---------------|-------------------|---------------------|----------------------|----------------------------|-----------------------|--------------------|--------------------|
| | VOLTAGE[V] | | AC85 - 264 1 φ | or DC110 - 370 | (AC50 or DC70 | Please refer to t | he instruction ma | nual 2.1 Input vo | oltage *3) |
| OUTPUT INPUT EF INF LE VO CU INF LE VO CU LIN LO CU LIN LO CU LIN LO RIF ST HO OUTPUT RIF ISOLATION OV PROTECTION OV PROTECTION OV PROTECTION OV CIRCUIT AND OV PROTECTION OV CIRCUIT AND OV ENVIRONMENT STO VIE IMM SAFETY AND AGE REGULATIONS HA OTHERS CO REGULATIONS CO CO CO CO CO CO CO CO CO CU CU CU CU CU CU CU CU CU CU | | ACIN 100V | 0.30typ (lo=100%) | 0.4typ (lo=100% | 6) | | | | |
| | CURRENT[A] | ACIN 200V | 0.15typ (lo=100%) | 0.2typ (lo=100% | 6) | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 440 |) or DC | | | | | |
| | | ACIN 100V | 68typ | 74typ | 75typ | 75typ | 77typ | 75typ | 75typ |
| | EFFICIENCY[%] | ACIN 200V | 68typ | 75typ | 77typ | 78typ | 80typ | 78typ | 78typ |
| | | ACIN 100V | 15typ (lo=100% |) (At cold start) | 1 | | | | |
| | INRUSH CURRENT[A] | ACIN 200V | 30typ (lo=100% |) (At cold start) | | | | | |
| | LEAKAGE CURREN | T[mA] | 0.15/0.30max (/ | ACIN 100V/240V | 60Hz, lo=100%, | According to IE | C60950-1,DENA | N) | |
| | 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℃ *1 | 80max | 80max | 120max | 120max | 120max | 120max | 150max |
| | RIPPLE[mvp-p] | -10 - 0℃ *1 | 140max | 140max | 160max | 160max | 160max | 160max | 200max |
| | | 0 to +50°C *1 | 120max | 120max | 150max | 150max | 150max | 150max | 250max |
| OUTPUT INPUT EF INPUT EF INPUT EF FF INPUT EF INPUT INPUT EF INPUT INPUT EF INPUT INPUT EF INPUT INPUT EF INPUT INPUT EF INPUT IN | RIPPLE NOISE[mVp-p] | -10 - 0℃ *1 | 160max | 160max | 180max | 180max | 180max | 180max | 300max |
| | | 0 to +50℃ | 50max | 50max | 90max | 120max | 150max | 240max | 480max |
| | TEMPERATURE REGULATION[mV] | | 60max | 60max | 120max | 150max | 180max | 290max | 600max |
| | DRIFT[mV] | *2 | 20max | 20max | 36max | 48max | 60max | 96max | 192max |
| | START-UP TIME[ms] | | 200typ(ACIN 100V | , lo=100%) *Start-u | up time is 700ms typ | o for less than 1min | ute of applying input | again from turning | off the input volt |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 10 | 0V, lo=100%) | | | | | |
| | OUTPUT VOLTAGE ADJUSTMEN | T 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 SET | TING[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 - 49.9 |
| | OVERCURRENT PROT | ECTION | Works over 105 | % of rated currer | nt and recovers a | automatically | | | |
| | OVERVOLTAGE PROTEC | TION[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 INDICA | TION | LED (Green) | | | | | | |
| | REMOTE ON/OFF | | None | | | | | | |
| | INPUT-OUTPUT | | AC3,000V 1min | ute, Cutoff currer | nt = 10mA, DC50 |)0V 50M Ω min (A | At Room Tempera | ature) | |
| SOLATION | INPUT-FG | | AC2,000V 1min | ute, Cutoff currer | nt = 10mA, DC50 |)0V 50M $_{\Omega}$ min (A | At Room Tempera | ature) | |
| | OUTPUT-FG | | AC500V 1minut | e, Cutoff current | = 25mA, DC500 | V 50MΩmin (At | Room Temperate | ure) | |
| | OPERATING TEMP.,HUMID.AND | ALTITUDE | -10 to +71℃ (R | equired Derating |), 20 - 90%RH (I | Non condensing) | 3,000m (10,000 | feet) max | |
| | STORAGE TEMP.,HUMID.AND | ALTITUDE | -20 to +75℃, 2 | 0 - 90%RH (Non | condensing) 9,0 | 00m (30,000feet) | max | | |
| | VIBRATION | | 10 - 55Hz, 19.6 | m/s² (2G), 3min | utes period, 60m | inutes each alon | g X, Y and Z axi | s | |
| | IMPACT | | 196.1m/s² (20G |), 11ms, once ea | ach X, Y and Z a | xis | | | |
| SAFETY AND | AGENCY APPROVALS (At only | y AC input) | UL60950-1, C-U | JL(CSA60950-1), | EN60950-1, EN | 50178 Complies | with DEN-AN | | |
| OISE | CONDUCTED NOISE | | Complies with F | CC Part15 class | B, VCCI-B, CISF | R22-B, EN5501 | 1-B, EN55022-B | | |
| REGULATIONS | HARMONIC ATTENU | JATOR | Complies with I | EC61000-3-2 (No | ot built-in to activ | e filter *4) *7 | | | |
| | CASE SIZE/WEIGHT | | 31 x 78 x 85mm | [1.22×3.07×3.3 | 35 inches] (witho | ut terminal block | (WXHXD) / 2 | 00g max (with co | over : 235g ma |
| JINERS | COOLING METHOD | | Convection | | | | | | |

*

Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).

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.

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

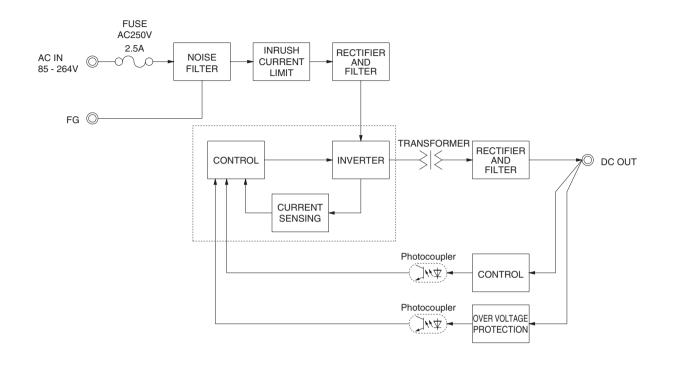
*6 Please contact us about dynamic load and input response. *7 Please contact us about class C.

*

Parallel operation with other model is not possible. *

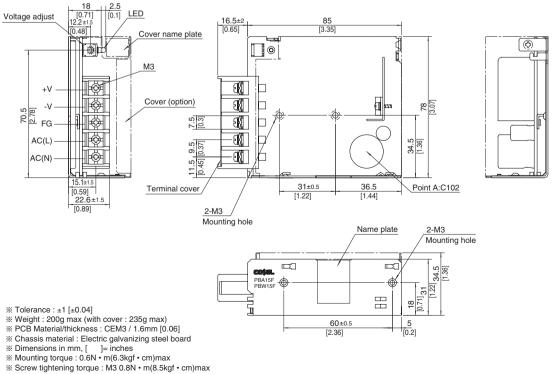
Derating is required when operated with cover. A sound may occur from power supply at peak loading.

Block diagram

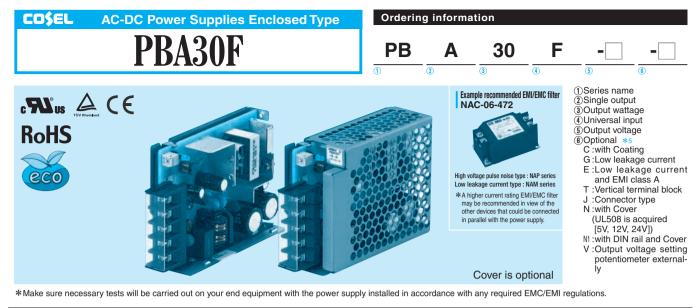


External view

* 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.



* Please connect safety ground to the unit in 2-M3 holes.



| 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 |

| | MODEL | | PBA30F-3R3 | PBA30F-5 | PBA30F-9 | PBA30F-12 | PBA30F-15 | PBA30F-24 | PBA30F-48 |
|--|----------------------------|----------------|----------------------------|--------------------|---------------------|------------------------|-----------------------|--------------------|---------------------|
| | VOLTAGE[V] | | AC85 - 264 1 φ | or DC110 - 370 | (AC50 or DC70 | Please refer to t | he instruction ma | anual 2.1 Input vo | oltage *3) |
| OUTPUT INPUT EF INF LE VO CU FR INF LE VO CU CU LIN LO RII OUTPUT RIF TEM DF ST HO OUTPUT RIF ISOLATION OV CIRCUIT AND OF ENVIRONMENT SAFETY AND AGE NOISE REGULATIONS HA OTHERS CA OTHERS CA | | ACIN 100V | 0.50typ (lo=100%) | 0.70typ (lo=100 | %) | | | | |
| | CURRENT[A] | ACIN 200V | 0.30typ (lo=100%) | 0.40typ (lo=100 | 1%) | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 440) | or DC | | | | | |
| | | ACIN 100V | 68typ | 74typ | 75typ | 76typ | 78typ | 78typ | 79typ |
| | EFFICIENCY[%] | ACIN 200V | 69typ | 77typ | 77typ | 78typ | 81typ | 81typ | 81typ |
| | | ACIN 100V | 15typ (lo=100% |) (At cold start) | | | | | |
| | INRUSH CURRENT[A] | ACIN 200V | 30typ (lo=100% |) (At cold start) | | | | | |
| | LEAKAGE CURREN | T[mA] | 0.30/0.65max (A | CIN 100V/240V | 60Hz, lo=100%, | According to IE | C60950-1,DENA | N) | |
| | 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 |
| | | 0 to +50°C * 1 | 80max | 80max | 120max | 120max | 120max | 120max | 150max |
| | RIPPLE[mVp-p] | -10 - 0℃ *1 | 140max | 140max | 160max | 160max | 160max | 160max | 200max |
| | | 0 to +50°C *1 | 120max | 120max | 150max | 150max | 150max | 150max | 250max |
| UTPUT | RIPPLE NOISE[mVp-p] | -10 - 0℃ *1 | 160max | 160max | 180max | 180max | 180max | 180max | 300max |
| INPUT EI INPUT EI INPUT EI IN C C LL LL LL R R C C C LL LL LL R R C C C C | | 0 to +50℃ | 50max | 50max | 90max | 120max | 150max | 240max | 480max |
| | TEMPERATURE REGULATION[mV] | | 60max | 60max | 120max | 150max | 180max | 290max | 600max |
| | DRIFT[mV] | *2 | 20max | 20max | 36max | 48max | 60max | 96max | 192max |
| | START-UP TIME[ms] | | 200typ(ACIN 100V | lo=100%) *Start-u | up time is 700ms ty | p for less than 1min | ute of applying input | again from turning | off the input volta |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 10 | 0V, lo=100%) | · · · · | | | | |
| | OUTPUT VOLTAGE ADJUSTMEN | T 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 SET | TING[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 - 49.9 |
| | OVERCURRENT PROT | ECTION | Works over 105 | % of rated curre | nt and recovers a | automatically | | | • |
| | OVERVOLTAGE PROTEC | TION[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 INDICA | TION | LED (Green) | | | | | | |
| Ento | REMOTE ON/OFF | | None | | | | | | |
| | INPUT-OUTPUT | | AC3,000V 1min | ute, Cutoff currer | nt = 10mA, DC50 | 00V 50MΩmin (A | At Room Tempera | ature) | |
| OLATION | INPUT-FG | | AC2,000V 1min | ute, Cutoff currer | nt = 10mA, DC50 | $00V 50M\Omega$ min (A | At Room Tempera | ature) | |
| | OUTPUT-FG | | AC500V 1minut | e, Cutoff current | = 25mA, DC500 | V 50MΩmin (At | Room Temperati | ure) | |
| | OPERATING TEMP.,HUMID.AND | ALTITUDE | -10 to +71℃ (R | equired Derating |), 20 - 90%RH (I | Non condensing) | 3,000m (10,000 | feet) max | |
| | STORAGE TEMP.,HUMID.AND | ALTITUDE | -20 to +75℃, 20 |) - 90%RH (Non | condensing) 9,0 | 00m (30,000feet) | max | | |
| WIRONMENT | VIBRATION | | 10 - 55Hz, 19.6 | m/s² (2G), 3min | utes period, 60m | ninutes each alon | g X, Y and Z axi | is | |
| | IMPACT | | 196.1m/s ² (20G |), 11ms, once ea | ach X, Y and Z a | xis | - | | |
| | AGENCY APPROVALS (At only | y AC input) | UL60950-1, C-L | JL(CSA60950-1), | EN60950-1, EN | 50178 Complies | with DEN-AN | | |
| OISE | CONDUCTED NOISE | | Complies with F | CC Part15 class | B, VCCI-B, CISF | PR22-B, EN5501 | 1-B, EN55022-B | | |
| EGULATIONS | HARMONIC ATTENU | JATOR | | EC61000-3-2 (No | | | | | |
| TUEDO | CASE SIZE/WEIGHT | | 31 x 78 x 103mr | n [1.22 × 3.07 × 4 | .06 inches] (with | out terminal bloc | k) (W×H×D) / 2 | 270g max (with c | over : 310g ma |
| JINERS | COOLING METHOD | | Convection | - | | | | 2 | |

Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN *1 :RM101).

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.

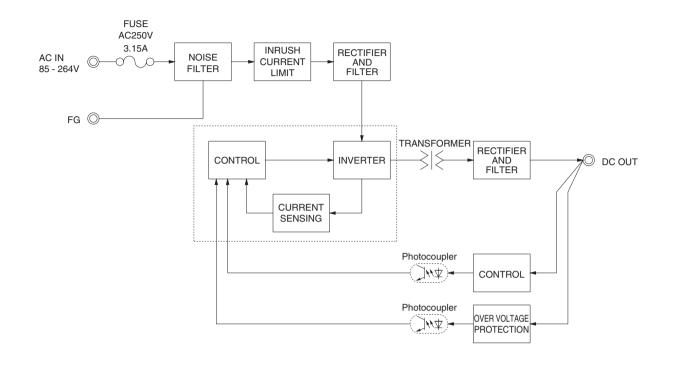
* Parallel operation with other model is not possible

*

Derating is required when operated with cover. A sound may occur from power supply at peak loading. *

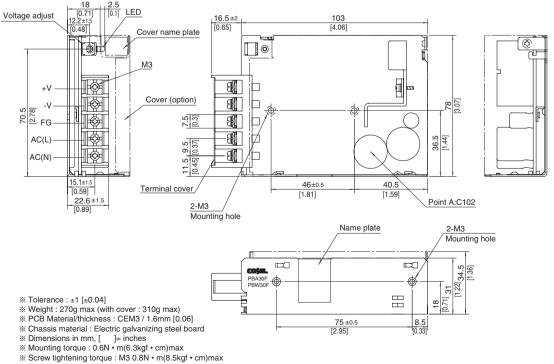
PBA30F | CO\$EL

Block diagram

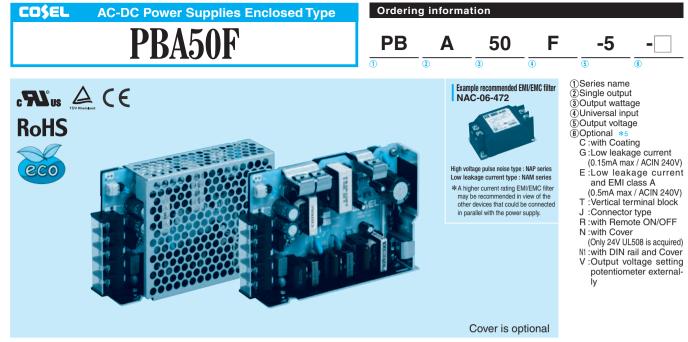


External view

% 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.



* Please connect safety ground to the unit in 2-M3 holes.



*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

| 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 ¢ | or DC120 - 37 | 0 (AC50 or DC7 | 0 Please refer to | the instruction i | nanual 2.1 Input | voltage *4) | |
| | | ACIN 100V | 0.5typ | 0.7typ | | | | | | |
| OUTPUT PROTECTION PROTECTION CU PROTECTION OUTPUT PROTECTION CIRCUIT AND OTHERS ENVIRONMENT SAFETY AND RIF IMI SAFETY AND CA OTHERS CA OTHERS CA | CURRENT[A] | ACIN 200V | 0.3typ | 0.4typ | | | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) | | | | | | | |
| | | ACIN 100V | 75typ | 80typ | 79typ | 80typ | 81typ | 82typ | 83typ | 83typ |
| NPUT | EFFICIENCY[%] | ACIN 200V | 76typ | 82typ | 81typ | 82typ | 83typ | 84typ | 85typ | 85typ |
| | POWER FACTOR(lo=100%) | ACIN 100V | 0.98typ | 0.99typ | | | | | | |
| | POWER FACTOR(10=100%) | ACIN 200V | 0.87typ | 0.93typ | | | | | | |
| | INRUSH CURRENT[A] | ACIN 100V | 15typ (lo=100% | b) (At cold start) | | | | | | |
| | | ACIN 200V | 30typ (lo=100% | b) (At cold start) | | | | | | |
| | LEAKAGE CURRENT[I | nA] | 0.4/0.75max (A | CIN 100V/240V | 60Hz, lo=100% | , According to IE | C60950-1,DENA | N) | | |
| | VOLTAGE[V] | | 3.3 | 5 | 9 | 12 | 15 | 24 | 36 | 48 |
| | CURRENT[A] | | 10 | 10 | 5.6 | 4.3 | 3.5 | 2.2 | 1.4 | 1.1 |
| | LINE REGULATION[m] | | 20max | 20max | 36max | 48max | 60max | 96max | 144max | 192max |
| | LOAD REGULATION[m | ιV] | 40max | 40max | 100max | 100max | 120max | 150max | 240max | 240max |
| | RIPPLE[mVp-p] | 0 to +50°C *1 | 80max | 80max | 120max | 120max | 120max | 120max | 150max | 150max |
| | RIPPLE[IIIvp-p] | -10 - 0℃ *1 | 140max | 140max | 160max | 160max | 160max | 160max | 200max | 200max |
| | RIPPLE NOISE[mVp-p] | 0 to +50°C *1 | 120max | 120max | 150max | 150max | 150max | 150max | 250max | 250max |
| OUTPUT INPUT PO INPUT PO INPUT PO IN IN IN IN IN IN IN IN IN IN | RIPPLE NOISE[IIIVP-P] | -10 - 0℃ *1 | 160max | 160max | 180max | 180max | 180max | 180max | 300max | 300max |
| | TEMPERATURE REGULATION(mV) | 0 to +50℃ | 50max | 50max | 90max | 120max | 150max | 240max | 360max | 480max |
| | | -10 to +50℃ | 60max | 60max | 120max | 150max | 180max | 290max | 450max | 600max |
| | DRIFT[mV] | *2 | 20max | 20max | 36max | 48max | 60max | 96max | 144max | 192max |
| | START-UP TIME[ms] | | 350typ(ACIN 1 | 00V, lo=100%) | | | | | | |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 10 | 0V, lo=100%) | | | | | | |
| | OUTPUT VOLTAGE ADJUSTMEN | T 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 SET | TING[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 | 48.00 - 49.92 |
| | OVERCURRENT PROT | ECTION | Works over 10 | 5% of rated curr | ent and recover | s automatically | | | | |
| | OVERVOLIAGE PROTEC | | 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 | ON | LED (Green) | | | | | | | |
| | REMOTE ON/OFF | | | ired external po | | | | | | |
| | INPUT-OUTPUT · RC | *3 | | | | 500V 50M Ω min | | | | |
| SOLATION | INPUT-FG | | | | | 500V 50MΩmin | | | | |
| | OUTPUT · RC-FG | *3 | | | | 500V 50M Ω min | | | | |
| | OPERATING TEMP.,HUMID.AND | - | | | | (Non condensin | | 00feet) max | | |
| | STORAGE TEMP.,HUMID.AND | ALTITUDE | | | <u>0</u> . | ,000m (30,000fe | | | | |
| | VIBRATION | | | | | Ominutes each al | ong X, Y and Z a | axis | | |
| | IMPACT | | | à), 11ms, once e | | | | | | |
| | AGENCY APPROVALS (At only | y AC input) | | | | EN50178 Complie | | | | |
| | CONDUCTED NOISE | | | | | SPR22-B, EN550 |)11-B, EN55022- | ·B | | |
| REGULATIONS | HARMONIC ATTENUAT | FOR | | EC61000-3-2 | | | | | | |
| OTHERS | CASE SIZE/WEIGHT | | | m [1.22 x 3.23 x | 4.72 inches] (wi | thout terminal blo | ock) (W×H×D) | / 280g max (wit | n cover : 325g m | ax) |
| | COOLING METHOD | | Convection | | | | | | | |

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).

Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C. Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and *2

*3 FG. *5 Please contact us about safety approvals for the model with option. *6 Please contact us about class C.

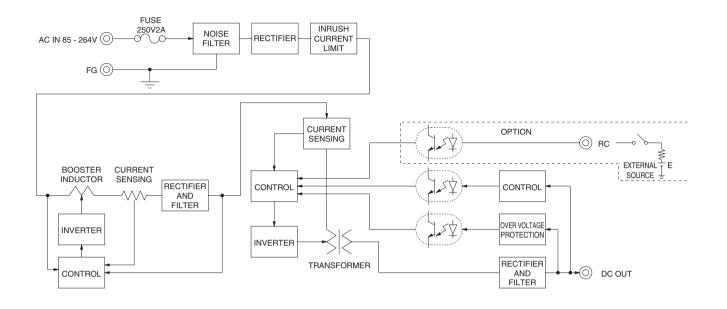
* Parallel operation with other model is not possible.

Derating is required when operated with cover.

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

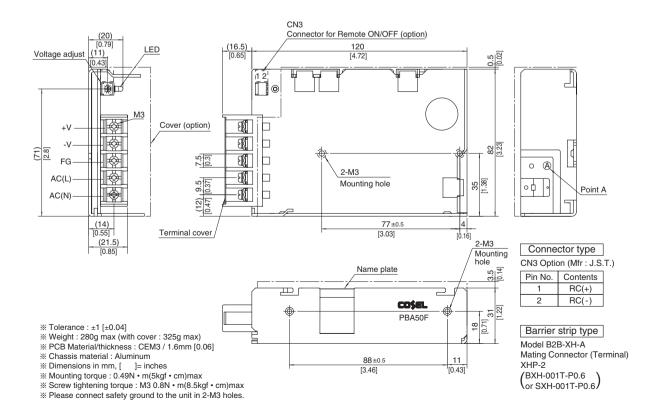
*4 Derating is required.

PBA50F | CO\$EL



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.



| CO\$EL AC-DC Power Supplies Enclosed Type | Ordering | informa | tion | | | |
|---|-----------|--------------------------------------|---|--|--|---|
| PBA75F | PB | A | 75 | F | -5 | • |
| <image/> <image/> <image/> <section-header><section-header><image/></section-header></section-header> | | High vo Low le: *A hij othe | Itage pulse noise type akage current type : I gher current traing EL be recommended in raralel with the power | NAP series VAM series N/EMC filter view of the e connected | (0.15mA i E :Low le and EM (0.5mA n T :Vertical J :Connec R :with Re N :with Co (Only 24V Ni :with DII V :Output | but ttage nput tage es5 ating kage current nax / ACIN 240V) Akage current I class A nax / ACIN 240V) terminal block tor type mote ON/OFF |
| | | | Cover is op | tional | | |

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

| 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 1¢ | or DC120 - 37 | 0 (AC50 or DC7 | 0 Please refer to | the instruction r | nanual 2.1 Input | voltage *4) | |
| | | ACIN 100V | 0.7typ | 1.0typ | | | | | | |
| | CURRENT[A] | ACIN 200V | | 0.5typ | | | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) | | | | | | | |
| | | ACIN 100V | 77typ | 81typ | 80typ | 81typ | 82typ | 83typ | 84typ | 84typ |
| NPUT | EFFICIENCY[%] | ACIN 200V | 78typ | 83typ | 82typ | 83typ | 84typ | 85typ | 86typ | 86typ |
| | | ACIN 100V | 0.98typ | 0.99typ | | | | | | |
| | POWER FACTOR(Io=100%) | ACIN 200V | 0.87typ | 0.93typ | | | | | | |
| | | ACIN 100V | 15typ (lo=100% | b) (At cold start) | | | | | | |
| | INRUSH CURRENT[A] | ACIN 200V | 30typ (lo=100% | b) (At cold start) | | | | | | |
| | LEAKAGE CURRENT[r | nA] | 0.4/0.75max (A | CIN 100V/240V | 60Hz, lo=100% | , According to IE | C60950-1,DENA | N) | | |
| | 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[m | /] | 20max | 20max | 36max | 48max | 60max | 96max | 144max | 192max |
| | LOAD REGULATION[m | | 40max | 40max | 100max | 100max | 120max | 150max | 240max | 240max |
| | | 0 to +50°C *1 | 80max | 80max | 120max | 120max | 120max | 120max | 150max | 150max |
| | RIPPLE[mVp-p] | -10 - 0℃ *1 | 140max | 140max | 160max | 160max | 160max | 160max | 200max | 200max |
| | | 0 to +50°C * 1 | 120max | 120max | 150max | 150max | 150max | 150max | 250max | 250max |
| OUTPUT INPUT PO INPUT PO INPUT PO IN IN IN IN IN IN IN IN IN IN | RIPPLE NOISE[mVp-p] | -10 - 0℃ *1 | 160max | 160max | 180max | 180max | 180max | 180max | 300max | 300max |
| | | 0 to +50°C | 50max | 50max | 90max | 120max | 150max | 240max | 360max | 480max |
| | TEMPERATURE REGULATION[mV] | -10 to +50°C | 60max | 60max | 120max | 150max | 180max | 290max | 450max | 600max |
| | DRIFT[mV] | *2 | 20max | 20max | 36max | 48max | 60max | 96max | 144max | 192max |
| | START-UP TIME[ms] | | 350typ(ACIN 1 | 00V, lo=100%) | | | | | | |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 10 | 0V, lo=100%) | | | | | | |
| | OUTPUT VOLTAGE ADJUSTMENT | T 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 SET | TING[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 PROT | ECTION | Works over 10 | 5% of rated curre | ent and recovers | automatically | | | · | · |
| | OVERVOLTAGE PROTEC | TION[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 |
| THERS | OPERATING INDICATION | ON | LED (Green) | | | | | | · | |
| | REMOTE ON/OFF | | Optional (Requ | ired external pov | wer source) | | | | | |
| | INPUT-OUTPUT · RC | *3 | AC3,000V 1mir | ute, Cutoff curre | ent = 10mA, DC | 500V 50MΩmin | (At Room Temp | erature) | | |
| SOLATION | INPUT-FG | | AC2,000V 1mir | ute, Cutoff curre | ent = 10mA, DC | 500V 50M Ω min | (At Room Temp | erature) | | |
| | OUTPUT · RC-FG | *3 | AC500V 1minu | te, Cutoff curren | t = 100mA, DC5 | 500V 50MΩmin | At Room Tempe | rature) | | |
| | OPERATING TEMP., HUMID.AND | ALTITUDE | -10 to +71℃ (F | Required Deratin | g), 20 - 90%RH | (Non condensing | g) 3,000m (10,00 | 00feet) max | | |
| | STORAGE TEMP.,HUMID.AND | ALTITUDE | -20 to +75℃, 2 | 0 - 90%RH (Nor | n condensing) 9 | 000m (30,000fee | et) max | | | |
| | VIBRATION | | 10 - 55Hz, 19.6 | 6m/s² (2G), 3mi | nutes period, 60 | minutes each ale | ong X, Y and Z a | axis | | |
| | IMPACT | | 196.1m/s ² (200 | a), 11ms, once e | ach X, Y and Z | axis | | | | |
| AFETY AND | AGENCY APPROVALS (At only | y AC input) | UL60950-1, C- | JL(CSA60950-1 |), EN60950-1, E | N50178 Complie | es with DEN-AN | | | |
| IOISE | CONDUCTED NOISE | | Complies with | FCC Part15 clas | sB, VCCI-B, CI | SPR22-B, EN550 | 11-B, EN55022- | B | | |
| EGULATIONS | HARMONIC ATTENUAT | FOR | Complies with | EC61000-3-2 * | 6 | | | | | |
| | CASE SIZE/WEIGHT | | 32 x 82 x 135m | m [1.26 x 3.23 x | 5.31 inches] (wi | hout terminal blo | ock) (W×H×D) | 350g max (wit | h cover : 400g m | ax) |
| JIIIENJ | COOLING METHOD | | Convection | | | | | | | |

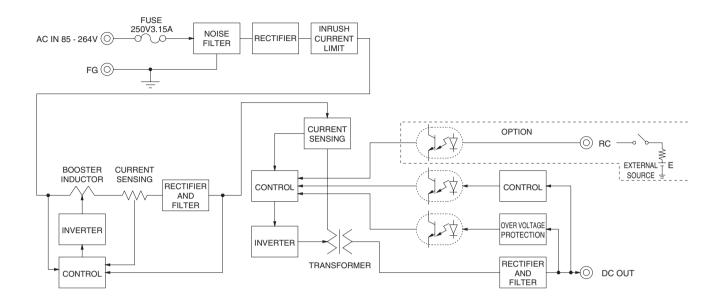
*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).

2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and FG.

*4 Derating is required.

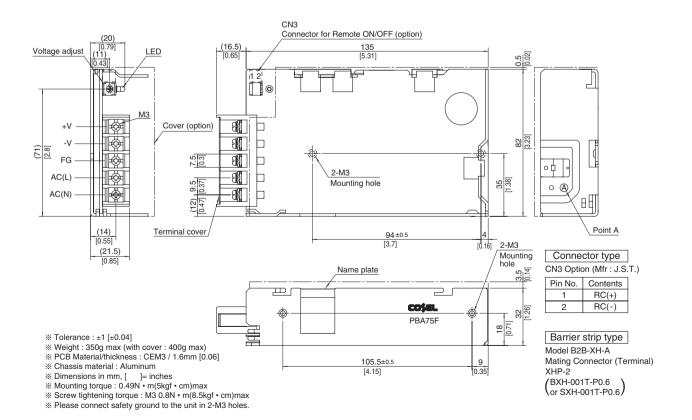
*5 Please contact us about safety approvals for the model with option.
*6 Please contact us about class C.
* Parallel operation with other model is not possible.
* Derating is required when operated with cover.
* A sound may occur from power supply at peak loading.

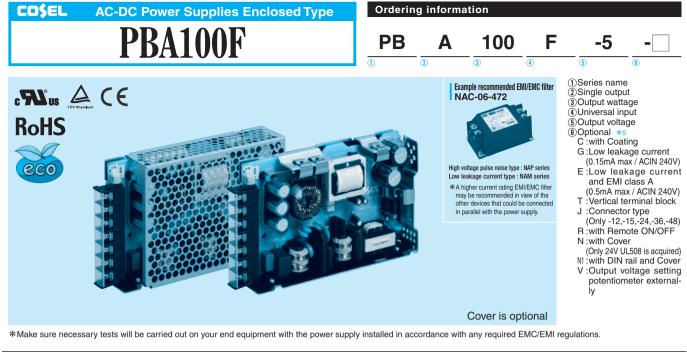




External view

* 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.





| 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 |

| | MODEL | | PBA100F-3R3 | PBA100F-5 | PBA100F-9 | PBA100F-12 | PBA100F-15 | PBA100F-24 | PBA100F-36 | PBA100F-48 | | |
|-------------|-------------------------------------|---------------|--|---------------------------------|------------------|---------------|---------------|---------------|---------------|---------------|--|--|
| | 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 ACIN 200V | | 0.9typ | 1.3typ | | | | | | | | |
| | | | | | | | | | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) | | | | | | | | | |
| INPUT | EFFICIENCY[%] | ACIN 100V | 77typ | 82typ | 80typ | 81typ | 83typ | 84typ | 84typ | 84typ | | |
| | | ACIN 200V | 79typ | 84typ | 82typ | 83typ | 86typ | 86typ | 86typ | 86typ | | |
| | POWER FACTOR(lo=100%) | ACIN 100V | 0.98typ | 0.99typ | | | | | | | | |
| | | ACIN 200V | | | | | | | | | | |
| | | ACIN 100V | | 20typ (lo=100%) (At cold start) | | | | | | | | |
| | INRUSH CURRENT[A] | | 40typ (lo=100%) (At cold start) | | | | | | | | | |
| | LEAKAGE CURRENT[mA] | | 0.4/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN) | | | | | | | | | |
| | VOLTAGE[V] | | 3.3 | 5 | 9 | 12 | 15 | 24 | 36 | 48 | | |
| ουτρυτ | 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[m | IV] | 40max | 40max | 100max | 100max | 120max | 150max | 240max | 240max | | |
| | RIPPLE[mVp-p] | 0 to +50°C *1 | 80max | 80max | 120max | 120max | 120max | 120max | 150max | 150max | | |
| | RIPPLE[mvp-p] | -10 - 0°C *1 | 140max | 140max | 160max | 160max | 160max | 160max | 200max | 200max | | |
| | | 0 to +50°C *1 | 120max | 120max | 150max | 150max | 150max | 150max | 250max | 250max | | |
| | RIPPLE NOISE[mVp-p] | -10 - 0℃ *1 | 160max | 160max | 180max | 180max | 180max | 180max | 300max | 300max | | |
| | TEMPERATURE REGULATION[mV] | 0 to +50℃ | 50max | 50max | 90max | 120max | 150max | 240max | 360max | 480max | | |
| | | -10 to +50℃ | 60max | 60max | 120max | 150max | 180max | 290max | 450max | 600max | | |
| | DRIFT[mV] | *2 | 20max | 20max | 36max | 48max | 60max | 96max | 144max | 192max | | |
| | START-UP TIME[ms] | | 350typ(ACIN 100V, Io=100%) | | | | | | | | | |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 100V, Io=100%) | | | | | | | | | |
| | OUTPUT VOLTAGE ADJUSTMENT | FRANGE[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 SET | TING[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 | | |
| | OVERCURRENT PROT | ECTION | Works over 105 | % of rated curr | ent and recovers | automatically | | | | | | |
| PROTECTION | OVERVOLTAGE PROTEC | TION[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 | | |
| CIRCUIT AND | OPERATING INDICATION | | LED (Green) | | | | | | | | | |
| OTHERS | REMOTE SENSING | | Optional (Only -3R3, -5 Option -K) | | | | | | | | | |
| | REMOTE ON/OFF | | Optional (Required external power source) | | | | | | | | | |
| | INPUT-OUTPUT · RC | *3 | a AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature) | | | | | | | | | |
| SOLATION | 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°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max | | | | | | | | | |
| | STORAGE TEMP., HUMID.AND ALTITUDE | | -20 to +75°C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max | | | | | | | | | |
| | VIBRATION | | 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | | | | | | | | |
| | IMPACT | | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | | | | | | | | |
| SAFETY AND | AGENCY APPROVALS (At only AC input) | | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN | | | | | | | | | |
| OISE | CONDUCTED NOISE | | Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B | | | | | | | | | |
| REGULATIONS | 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) | | | | | | | | | |
| JINENS | COOLING METHOD | | Convection | | | | | | | | | |

ured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN :RM101).

Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C. Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and *2

*3 FG.

*4 Derating is required.

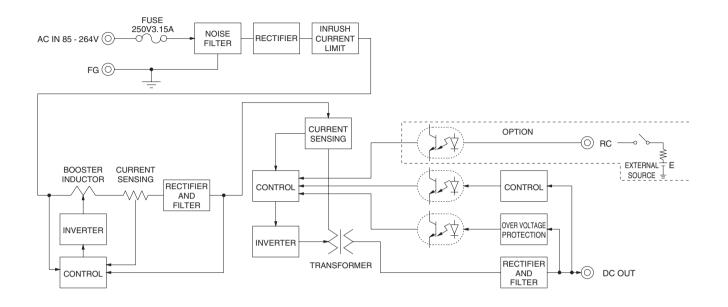
lease contact us about safety approvals for the model with option. *6 Please contact us about class C.

* Parallel operation with other model is not possible.

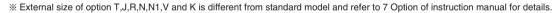
* Derating is required when operated with cover.

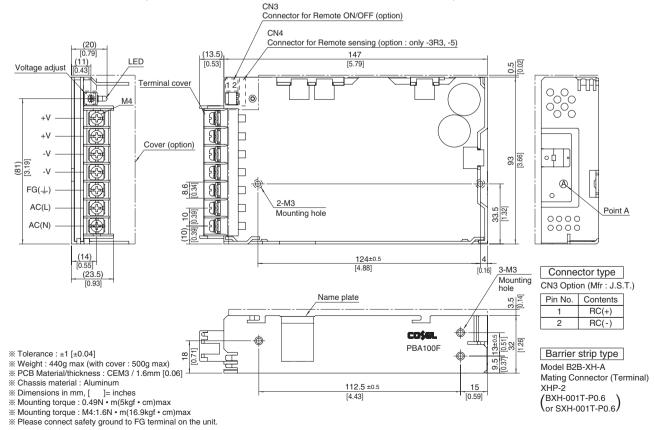
* A sound may occur from power supply at peak loading.

PBA100F | CO\$EL



External view





| | Enclosed Type Ordering information | | | | | |
|---|------------------------------------|--------------------------------|--|--|---|--|
| PBA150F | PB ^① | A | <u>3</u> | F | -5 | • |
| <image/> <image/> <section-header></section-header> | | High Low *A ma ott | AC-06-472 Woldage pulse noise types violage guisen orise | e : NAP series :NAM series :M/EMC filter : view of the be connected r supply: | (0.15mA i E :Low le and EM (0.5mA n T :Vertical J :Connec (Only -12 R :with Re N :with Re N :with Co (Only 24V NI :with DIN V :Output | but tage nput iage to ating kage current nax / ACIN 240V) akage current I class A nax / ACIN 240V) terminal block tor type ,-15,-24,-36,-48) mote ON/OFF |

| 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 |

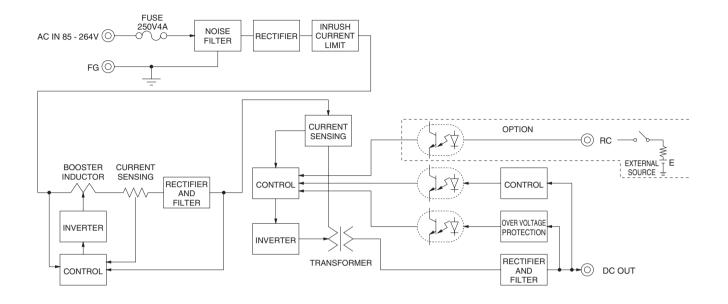
| | MODEL | | PBA150F-3R3 | PBA150F-5 | PBA150F-9 | PBA150F-12 | PBA150F-15 | PBA150F-24 | PBA150F-36 | PBA150F-48 | |
|-------------|--------------------------------------|---------------|---|------------------|------------------|-------------------|---------------|---------------|---------------|---------------|--|
| | 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 ACIN 200V | | 1.3typ 2.0typ | | | | | | | | |
| | | | 0.7typ | 1.0typ | | | | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) | | | | | | | | |
| | EFFICIENCY[%] | ACIN 100V | 80typ | 83typ | 82typ | 83typ | 84typ | 85typ | 85typ | 85typ | |
| | | ACIN 200V | 82typ | 86typ | 85typ | 86typ | 87typ | 88typ | 88typ | 88typ | |
| | POWER FACTOR(lo=100%) | ACIN 100V | 0.98typ | 0.99typ | | | | | | | |
| | | ACIN 200V | | | | | | | | | |
| | INRUSH CURRENT[A] | | 20typ (lo=100% | | | | | | | | |
| | | ACIN 200V | | | | | | | | | |
| | LEAKAGE CURRENT[mA] | | 0.4/0.75max (A | CIN 100V/240V | 60Hz, lo=100% | , According to IE | C60950-1,DENA | N) | | | |
| | VOLTAGE[V] | | 3.3 | 5 | 9 | 12 | 15 | 24 | 36 | 48 | |
| OUTPUT | 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[m | IV] | 40max | 40max | 100max | 100max | 120max | 150max | 240max | 240max | |
| | RIPPLE[mVp-p] RIPPLE NOISE[mVp-p] | 0 to +50°C *1 | 80max | 80max | 120max | 120max | 120max | 120max | 150max | 150max | |
| | | -10 - 0°C *1 | 140max | 140max | 160max | 160max | 160max | 160max | 200max | 200max | |
| | | 0 to +50°C *1 | 120max | 120max | 150max | 150max | 150max | 150max | 250max | 250max | |
| | | -10 - 0℃ *1 | 160max | 160max | 180max | 180max | 180max | 180max | 300max | 300max | |
| | TEMPERATURE REGULATION[mV] | 0 to +50℃ | 50max | 50max | 90max | 120max | 150max | 240max | 360max | 480max | |
| | | -10 to +50℃ | 60max | 60max | 120max | 150max | 180max | 290max | 450max | 600max | |
| | DRIFT[mV] | *2 | 20max | 20max | 36max | 48max | 60max | 96max | 144max | 192max | |
| | START-UP TIME[ms] | | 350typ(ACIN 100V, Io=100%) | | | | | | | | |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 100V, Io=100%) | | | | | | | | |
| | OUTPUT VOLTAGE ADJUSTMENT | | 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 SET | TING[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 PROT | ECTION | Works over 105 | 5% of rated curr | ent and recover: | s automatically | | | | | |
| PROTECTION | OVERVOLTAGE PROTEC | TION[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) | | | | | | | | |
| OTHERS | REMOTE SENSING | | Optional (Only -3R3, -5 Option -K) | | | | | | | | |
| | REMOTE ON/OFF | | Optional (Required external power source) | | | | | | | | |
| | INPUT-OUTPUT · RC | *3 | $_3$ AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) | | | | | | | | |
| ISOLATION | INPUT-FG | | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature) | | | | | | | | |
| | OUTPUT · RC-FG *3 | | $_3$ AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature) | | | | | | | | |
| | OPERATING TEMP.,HUMID.AND ALTITUDE | | | | | | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMID.AND ALTITUDE | | | | | | | | | | |
| | VIBRATION | | 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | | | | | | | |
| | IMPACT | | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | | | | | | | |
| SAFETY AND | AGENCY APPROVALS (At only AC input) | | | | | | | | | | |
| NOISE | CONDUCTED NOISE | | Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B | | | | | | | | |
| REGULATIONS | 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) | | | | | | | | |
| JIILIO | 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 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.

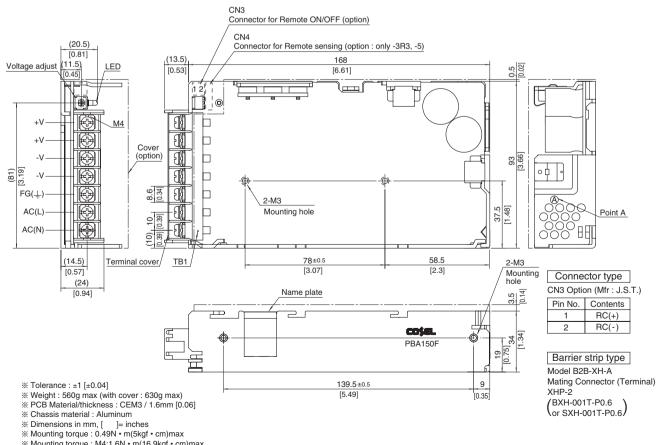
PBA/PBW-14

PBA150F | COSEL



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.



Mounting torque : M4:1.6N • m(16.9kgf • cm)max
 Keep drawing current per pin below 20A for TB1.
 Please connect safety ground to FG terminal on the unit.