

# SNDBS400B

**SNDB S 400 B 03**

① ② ③ ④ ⑤



- ① Series name
- ② Single output
- ③ Output wattage
- ④ B : DC200-400V
- ⑤ Output voltage

\* Please set short-pieces with 2-3 pins of CN8, when you do not use ENA. Refer to the manual.

| MODEL                 | SNDBS400B03 | SNDBS400B05 | SNDBS400B07 | SNDBS400B12 | SNDBS400B15 | SNDBS400B18 | SNDBS400B24 | SNDBS400B28 |
|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MAX OUTPUT WATTAGE[W] | 264         | 400         | 405         | 408         | 405         | 396         | 408         | 406         |
| DC OUTPUT             | 3.3V 80A    | 5V 80A      | 7.5V 54A    | 12V 34A     | 15V 27A     | 18V 22A     | 24V 17A     | 28V 14.5A   |

## SPECIFICATIONS

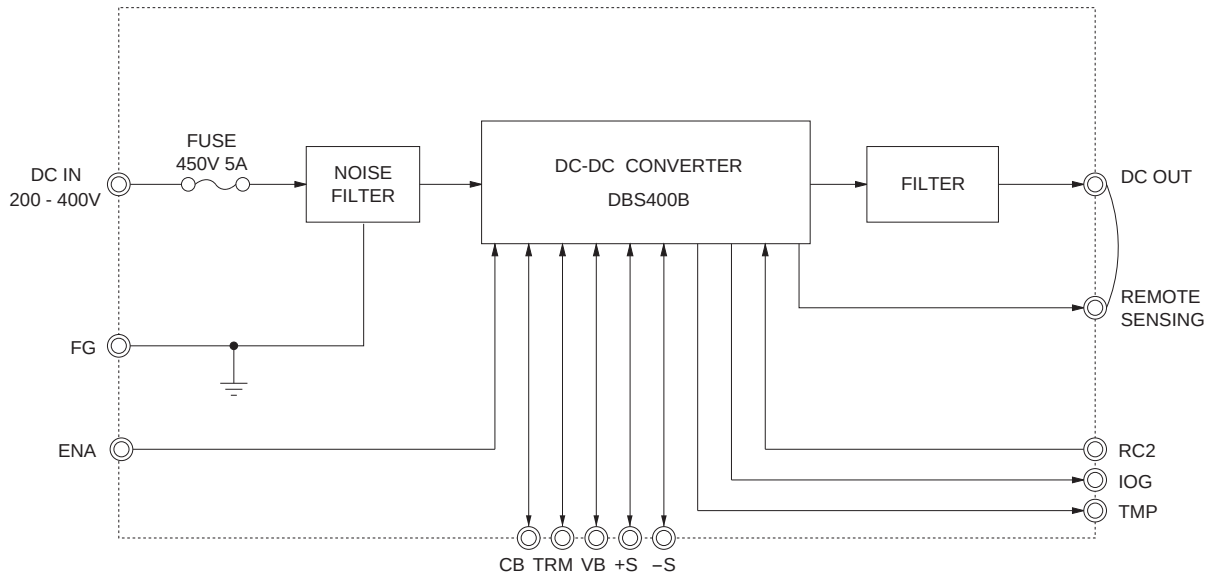
|                                     | MODEL                                | SNDBS400B03                                                                                                           | SNDBS400B05 | SNDBS400B07  | SNDBS400B12   | SNDBS400B15   | SNDBS400B18   | SNDBS400B24   | SNDBS400B28   |
|-------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|
| INPUT                               | VOLTAGE[V]                           | DC200 - 400                                                                                                           |             |              |               |               |               |               |               |
|                                     | CURRENT[A]                           | *1 1.19typ                                                                                                            | 1.72typ     | 1.68typ      | 1.67typ       | 1.66typ       | 1.61typ       | 1.67typ       | 1.63typ       |
|                                     | EFFICIENCY[%]                        | *1 79typ                                                                                                              | 83typ       | 86typ        | 87typ         | 87typ         | 89typ         | 87typ         | 88typ         |
| OUTPUT                              | VOLTAGE[V]                           | 3.3                                                                                                                   | 5           | 7.5          | 12            | 15            | 18            | 24            | 28            |
|                                     | CURRENT[A]                           | 80                                                                                                                    | 80          | 54           | 34            | 27            | 22            | 17            | 14.5          |
|                                     | LINE REGULATION[mV]                  | 16max                                                                                                                 | 20max       | 30max        | 40max         | 60max         | 60max         | 95max         | 95max         |
|                                     | LOAD REGULATION[mV]                  | 150max                                                                                                                | 150max      | 150max       | 150max        | 150max        | 150max        | 190max        | 190max        |
|                                     | RIPPLE[mVp-p]                        | 0 to +80℃ *2 80max                                                                                                    | 80max       | 100max       | 120max        | 120max        | 120max        | 120max        | 120max        |
|                                     |                                      | -20 to 0℃ *2 140max                                                                                                   | 140max      | 150max       | 160max        | 160max        | 160max        | 160max        | 160max        |
|                                     | RIPPLE NOISE[mVp-p]                  | 0 to +80℃ *2 160max                                                                                                   | 160max      | 200max       | 200max        | 200max        | 200max        | 200max        | 200max        |
|                                     |                                      | -20 to 0℃ *2 250max                                                                                                   | 250max      | 280max       | 280max        | 280max        | 280max        | 280max        | 280max        |
|                                     | TEMPERATURE REGULATION[mV]           | 0 to +65℃ 35max                                                                                                       | 50max       | 75max        | 120max        | 180max        | 180max        | 280max        | 280max        |
|                                     |                                      | -20 to +80℃ 60max                                                                                                     | 85max       | 130max       | 200max        | 310max        | 310max        | 480max        | 480max        |
| PROTECTION<br>CIRCUIT AND<br>OTHERS | DRIFT[mV]                            | *3 16max                                                                                                              | 20max       | 30max        | 40max         | 60max         | 60max         | 90max         | 90max         |
|                                     | START-UP TIME[ms]                    | 200max (DCIN 280V, Io=100%)                                                                                           |             |              |               |               |               |               |               |
|                                     | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | 2.97 - 3.63                                                                                                           | 4.50 - 5.50 | 6.75 - 8.25  | 10.80 - 13.20 | 13.50 - 16.50 | 16.20 - 19.80 | 21.60 - 26.40 | 25.20 - 30.80 |
|                                     | OUTPUT VOLTAGE SETTING[V]            | 3.25 - 3.45                                                                                                           | 4.90 - 5.20 | 7.25 - 7.85  | 11.60 - 12.60 | 14.40 - 15.60 | 17.28 - 18.72 | 23.04 - 24.96 | 26.88 - 29.12 |
|                                     | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                                                  |             |              |               |               |               |               |               |
|                                     | OVERVOLTAGE PROTECTION[V]            | 4.00 - 5.50                                                                                                           | 5.75 - 7.00 | 8.60 - 10.50 | 13.80 - 16.80 | 17.25 - 21.00 | 20.70 - 25.20 | 27.60 - 33.60 | 32.20 - 39.20 |
|                                     | REMOTE SENSING                       | Provided                                                                                                              |             |              |               |               |               |               |               |
| ISOLATION                           | REMOTE ON/OFF                        | Provided (Input side : ENA, Output side : RC2)                                                                        |             |              |               |               |               |               |               |
|                                     | INPUT-OUTPUT                         | AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                                                     |             |              |               |               |               |               |               |
|                                     | INPUT-FG                             | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                                                     |             |              |               |               |               |               |               |
| ENVIRONMENT                         | OUTPUT-FG                            | AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)                                                      |             |              |               |               |               |               |               |
|                                     | OPERATING TEMP., HUMID. AND ALTITUDE | -20 to +80℃ (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000 feet) max |             |              |               |               |               |               |               |
|                                     | STORAGE TEMP., HUMID. AND ALTITUDE   | -20 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max                                                    |             |              |               |               |               |               |               |
|                                     | VIBRATION                            | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis                           |             |              |               |               |               |               |               |
| SAFETY                              | IMPACT                               | 196.1m/s <sup>2</sup> (20G), 11ms, once each along X, Y and Z axis                                                    |             |              |               |               |               |               |               |
|                                     | AGENCY APPROVALS                     | UL60950-1, C-UL, EN60950-1                                                                                            |             |              |               |               |               |               |               |
| OTHERS                              | CASE SIZE/WEIGHT                     | 89×44.5×222mm [3.51×1.75×8.75 inches](W×H×D) / 570g max                                                               |             |              |               |               |               |               |               |
|                                     | COOLING METHOD                       | Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)                       |             |              |               |               |               |               |               |

\*1 At rated input (DC280V) and rated load.

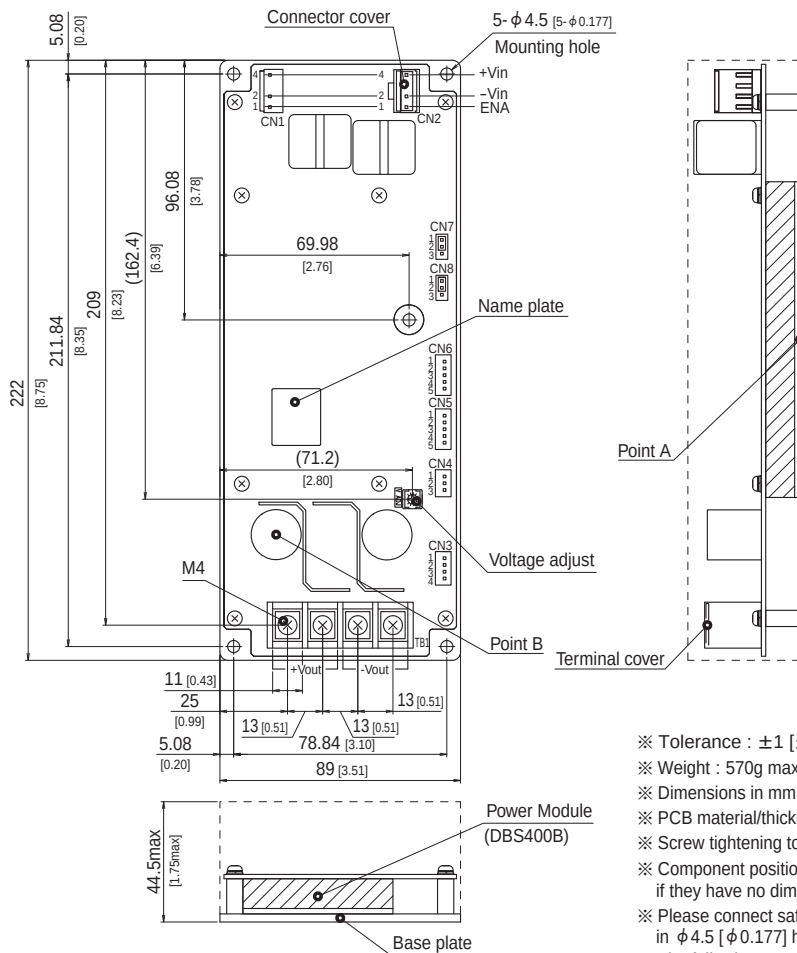
\*2 Refer to Instruction manual for the measuring method of an electrical property.

\*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input / output.

## Block diagram



## External view

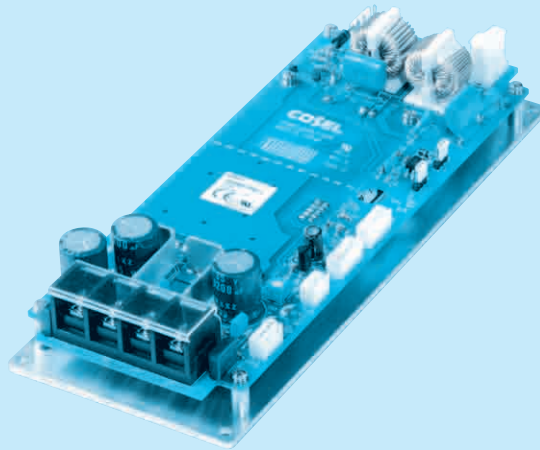


- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 570g max
- ※ Dimensions in mm, [ ]=inches
- ※ PCB material/thickness : FR-4 / 1.6mm [0.06]
- ※ Screw tightening torque :  $1.6\text{N} \cdot \text{m}$  (16.9kgf  $\cdot$  cm)max
- ※ Component positions and sizes are for your reference if they have no dimensions.
- ※ Please connect safety ground to the base plate in  $\phi 4.5$  [ $\phi 0.177$ ] hole.
- ※ The following parts are attached at shipping from factory
  - CN2 : Housing for protection
  - CN3 : Short-pieces for without remote sensing
  - CN7, CN8 : Short-piece for setting
- ※ Keep drawing current per pin below 7A for CN1/CN2.

## SNDBS700B

SNDB S 700 B 28

① ② ③ ④ ⑤



- ① Series name  
 ② Single output  
 ③ Output wattage  
 ④ B : DC200-400V  
 ⑤ Output voltage

\* Please set short-pieces with 2-3 pins of CN8, when you do not use ENA. Refer to the manual.

| MODEL                 | SNDBS700B12 | SNDBS700B24 | SNDBS700B28 | SNDBS700B36 | SNDBS700B48 |
|-----------------------|-------------|-------------|-------------|-------------|-------------|
| MAX OUTPUT WATTAGE[W] | 696         | 696         | 700         | 702         | 696         |
| DC OUTPUT             | 12V 58A     | 24V 29A     | 28V 25A     | 36V 19.5A   | 48V 14.5A   |

## SPECIFICATIONS

|                                     | MODEL                                | SNDBS700B12                                                                                                            | SNDBS700B24   | SNDBS700B28   | SNDBS700B36   | SNDBS700B48   |
|-------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|
| INPUT                               | VOLTAGE[V]                           | DC200 - 400                                                                                                            |               |               |               |               |
|                                     | CURRENT[A]                           | *1 2.76typ                                                                                                             | 2.76typ       | 2.76typ       | 2.76typ       | 2.73typ       |
|                                     | EFFICIENCY[%]                        | *1 90.0typ                                                                                                             | 90.0typ       | 90.5typ       | 90.0typ       | 91.0typ       |
| OUTPUT                              | VOLTAGE[V]                           | 12                                                                                                                     | 24            | 28            | 36            | 48            |
|                                     | CURRENT[A]                           | 58                                                                                                                     | 29            | 25            | 19.5          | 14.5          |
|                                     | LINE REGULATION[mV]                  | 40max                                                                                                                  | 95max         | 95max         | 95max         | 120max        |
|                                     | LOAD REGULATION[mV]                  | 150max                                                                                                                 | 190max        | 190max        | 200max        | 240max        |
|                                     | RIPPLE[mVp-p]                        | 0 to +95°C *2 120max                                                                                                   | 120max        | 120max        | 150max        | 200max        |
|                                     |                                      | -20 to 0°C *2 160max                                                                                                   | 160max        | 160max        | 200max        | 250max        |
|                                     | RIPPLE NOISE[mVp-p]                  | 0 to +95°C *2 200max                                                                                                   | 200max        | 200max        | 200max        | 250max        |
|                                     |                                      | -20 to 0°C *2 280max                                                                                                   | 280max        | 280max        | 280max        | 400max        |
|                                     | TEMPERATURE REGULATION[mV]           | 0 to +65°C 120max                                                                                                      | 280max        | 280max        | 360max        | 480max        |
|                                     |                                      | -20 to +95°C 200max                                                                                                    | 480max        | 480max        | 680max        | 960max        |
| PROTECTION<br>CIRCUIT AND<br>OTHERS | DRIFT[mV]                            | *3 40max                                                                                                               | 90max         | 90max         | 120max        | 180max        |
|                                     | START-UP TIME[ms]                    | 200max (DCIN 280V, Io=100%)                                                                                            |               |               |               |               |
|                                     | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | *4 10.80 - 13.20                                                                                                       | 21.60 - 26.40 | 25.20 - 30.80 | 32.40 - 39.60 | 43.20 - 52.80 |
|                                     | OUTPUT VOLTAGE SETTING[V]            | *1 11.64 - 12.36                                                                                                       | 23.28 - 24.72 | 27.16 - 28.84 | 34.92 - 37.08 | 46.56 - 49.44 |
|                                     | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                                                   |               |               |               |               |
|                                     | OVERVOLTAGE PROTECTION[V]            | 13.80 - 16.80                                                                                                          | 27.60 - 33.60 | 32.20 - 39.20 | 41.40 - 50.40 | 55.20 - 63.00 |
| ISOLATION                           | REMOTE SENSING                       | Provided                                                                                                               |               |               |               |               |
|                                     | REMOTE ON/OFF                        | Provided (On both side of input output)                                                                                |               |               |               |               |
|                                     | INPUT-OUTPUT                         | AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                                                     |               |               |               |               |
| ENVIRONMENT                         | INPUT-FG                             | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                                                     |               |               |               |               |
|                                     | OUTPUT-FG                            | AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)                                                      |               |               |               |               |
|                                     | OPERATING TEMP., HUMID. AND ALTITUDE | -20 to +95°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000 feet) max |               |               |               |               |
| SAFETY                              | STORAGE TEMP., HUMID. AND ALTITUDE   | -20 to +95°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) 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 along X, Y and Z axis                                                     |               |               |               |               |
| OTHERS                              | AGENCY APPROVALS                     | UL60950-1, C-UL, EN60950-1                                                                                             |               |               |               |               |
|                                     | CASE SIZE/WEIGHT                     | 89×44.5×222mm [3.51×1.75×8.75 inches] (W×H×D) / 570g max                                                               |               |               |               |               |
|                                     | COOLING METHOD                       | Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)                        |               |               |               |               |

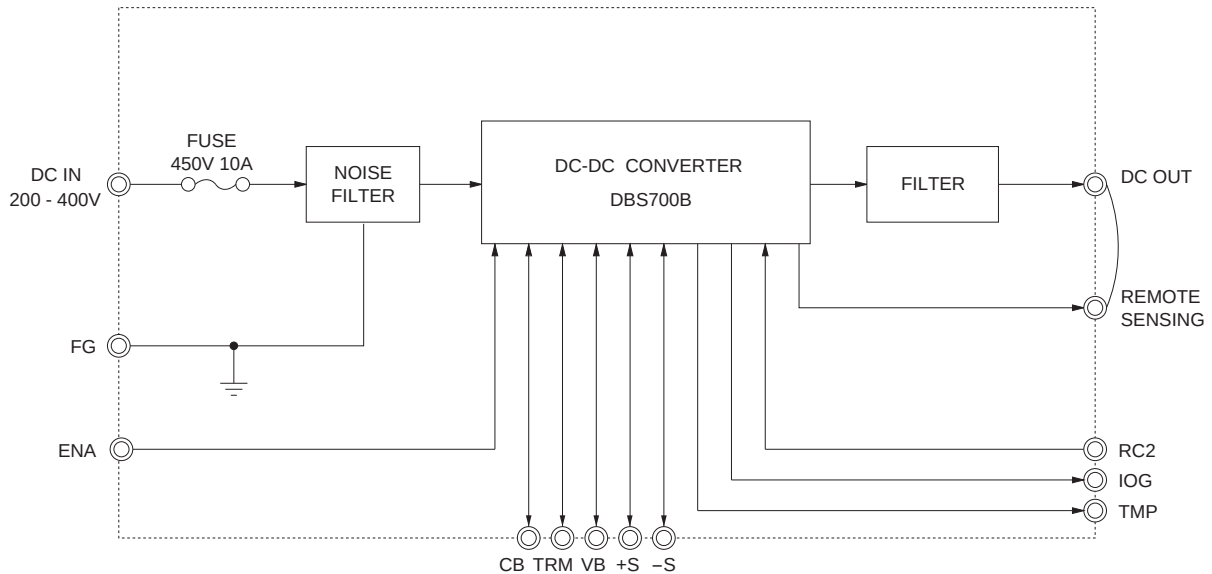
\*1 At rated input (DC280V) and rated load.

\*2 Refer to Instruction manual for the measuring method of an electrical property.

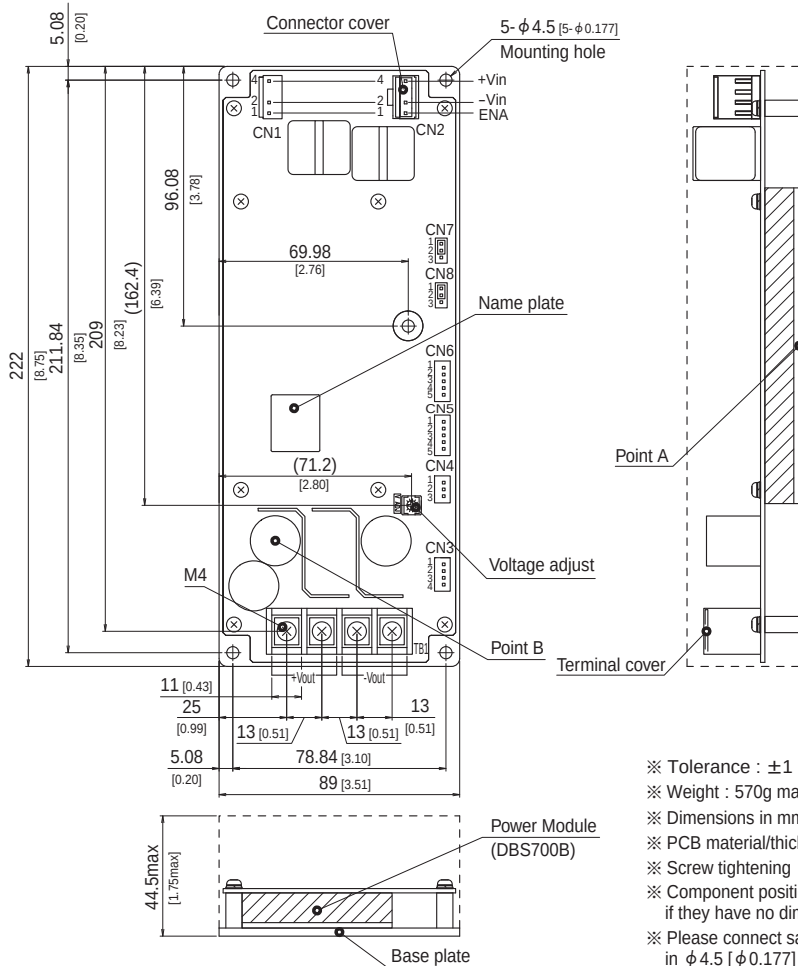
\*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input / output.

\*4 Refer to the manual for the input range.

## Block diagram



## External view



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 570g max
- ※ Dimensions in mm, [ ]=inches
- ※ PCB material/thickness : FR-4 / 1.6mm [0.06]
- ※ Screw tightening torque :  $1.6\text{N} \cdot \text{m}$  ( $16.9\text{kgf} \cdot \text{cm}$ ) max
- ※ Component positions and sizes are for your reference if they have no dimensions.
- ※ Please connect safety ground to the base plate in  $\phi 4.5$  [ $\phi 0.177$ ] hole.
- ※ The following parts are attached at shipping from factory
  - CN2 : Housing for protection
  - CN3 : Short-pieces for without remote sensing
  - CN7, CN8 : Short-piece for setting
- ※ Keep drawing current per pin below 7A for CN1/CN2.

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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