

Scope

This specification applies to built-in DC stabilized power supply, OZP-240/600P-24, OZP-240/600P-48.

In addition, all items in this specification shall be provided at normal temperature and humidity unless otherwise specified.

Model name coding

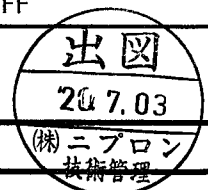
Example : O Z P - 2 4 0 / 6 0 0 P - 2 4 - J S E - K
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Series name "OZ": OZ series
- ② Peak power "P": Corresponding to Peak power
- ③ Continuous output power "240": 240W (at 200VAC input)
- ④ Peak output power "600P": 600W (at 200VAC input)
- ⑤ Output voltage "24" : 24V, "48" : 48V
- ⑥ Input/Output connector type "J": Nylon connector
- ⑦ Current balance function "0": Without current balance function, "S": With current balance function
- ⑧ Low standby power "E": Low standby power type
- ⑨ Modification "(Blank)": Standard, "1 to 9" or "A to Z": Modification symbol
- ⑩ Chassis "C": With Chassis, "K": With Chassis and Cover, "Blank": Without Chassis and Cover.

General specification

| Items | | Specification | | Measurement conditions, etc | |
|---------------|-----------------|---------------|----------|--|--|
| | | OZP-240/600P- | | | |
| | | 24 | 48 | | |
| AC input | Rated voltage | 100 - 240 VAC | | Worldwide range | |
| | Voltage range | 85 - 264 VAC | | Load factor shall be 90 - 100% in range of 85 - 95 VAC input | |
| | Current | At 100VAC | 2.3A typ | | At rated output (Natural air cooling) |
| | | At 200VAC | 1.4A typ | | At rated output (Natural air cooling) |
| | Rated frequency | 50/60 Hz | | Frequency range 47 - 63Hz | |
| | Inrush current | At 100VAC | 25A max. | | Power thermistor system Continuous rated output power At cold start (25°C) |
| | | At 200VAC | 50A max. | | |
| | Efficiency | At 100VAC | 86% typ | | At rated output (Natural air cooling) |
| | | At 200VAC | 90% typ | | |
| | Power factor | At 100VAC | 99% typ | | At rated output (Natural air cooling) |
| At 200VAC | | 95% typ | | | |
| No-load power | At 100VAC | 1.4W typ | | Power consumption at no-load | |
| | At 200VAC | 1.4W typ | | | |
| Standby power | At 100VAC | 60mW typ | | Power consumption at RC signal OFF | |
| | At 200VAC | 200mW typ | | | |

Note



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| Drawn by Yodo | Checked by Yamada | Approved by Yamamoto | Model: OZP-240/600P **_****_* | Drawing No. 3 6 6 9 - 0 1 - 4 - 5 2 0 1/11 |
|------------------|----------------------|-------------------------|-------------------------------------|--|

| Items | | Specification | | Measurement conditions, etc |
|------------------|---|--|--|---|
| | | OZP-240/600P- | | |
| | | 24 | 48 | |
| Environment | Operating temp. | Natural air cooling | -10 to 60°C (Open frame) | Refer to "Output derating specification." |
| | | | -10 to 55°C (With Chassis and Cover) | |
| | Operating humidity | 20 - 90% RH | | |
| | Storage temp. / Humidity | -20 to 75°C / 10 to 95% RH | | There shall no condensation. |
| | Vibration | To endure the vibration acceleration of 2G with vibration frequency of 10 to 55Hz for 10 sweep cycles in each X-Y-Z direction. (1G for mounting only with heat releasing fin.) | | Follow JIS-C-60068-2-6 at no operation |
| Surface dropping | Lift one bottom edge of the unit 50mm high with the opposite edge placed on the test bench, and let it fall. Repeat 3 times for each of four bottom edges, and no malfunction shall be observed | | Follow JIS-C-60068-2-31 at no operation | |
| Insulation | Dielectric strength | 3kVAC/1 min. between Input and Output/RC/AC_FAIL | | Cut-off current: 10mA |
| | | 2kVAC /1 min. between Input and FG | | Cut-off current: 10mA |
| | Insulation resistance | 500VAC/1 min. Between each Output/RC/AC_FAIL/FG | | |
| | | 50MΩ min. between Input/Output/RC/AC_FAIL/FG | | At 500 VDC |
| Leakage current | 0.15mA max.(at100VAC), 0.3mA max.(at 200VAC) | | | |
| Others | Electrostatic discharge | IEC61000-4-2 test level 3 compliant (Contact discharge: ±6kV, 10 times) | | Apply to FG or chassis There shall be no malfunction, nor failure. |
| | Fast transient/burst | IEC61000-4-4 test level 3 compliant | | There shall be no malfunction, nor failure. |
| | Impulse voltage immunity | IEC-61000-4-5 (Installation environment Class 3, 4) compliant; apply five times each of Common mode ±4kV and Normal mode ±2kV | | There shall be no malfunction, nor failure. |
| | Conducted emission | VCCI, FCC, CISPR32, and EN55032 Class B compliant | | At rated input and output, with chassis |
| | Harmonic current regulations | IEC61000-3-2 (Ed. 2.1) Class D, and EN61000-3-2 (A14) Class D compliant | | At rated input and output |
| | Safety Standard | UL60950-1, CSA60950-1 (c-UL) CE marking, PSE (Ordinance item 2) compliant | | Certification |
| | Cooling system | Natural air cooling | | |
| | Dimensions and Weight | 73×40×222 (W×H×D) /530g typ | | Without Chassis and Cover |
| | | 83.8×51×252 (W×H×D) /830g typ | | With Chassis and Cover |
| Warranty | Three years after delivery: if any defects belong to us, the defective unit shall be repaired or replaced at our cost. | | The unit shall be operated at normal temperature and humidity. Except for lifetime of electrolytic capacitors due to operating environment. | |
| Note | | | | |



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| Output Specification | | | | | |
|------------------------|---|--|--|--|---|
| Items | | Specification | | | Measurement conditions, etc |
| | | OZP-240/600P- | | | |
| | | 24 | 48 | | |
| Output Rating | Rated Voltage | | 24V | 48V | |
| | Continuous rating (natural air cooling) | Current | 8.4A (at 100VAC) 10A (at 200VAC) | 4.2A (at 100VAC) 5A (at 200VAC) | Refer to "Output derating specification." |
| | | Power | 201.6W (at 100VAC) 240W (at 200VAC) | 201.6W (at 100VAC) 240W (at 200VAC) | |
| | Peak rating (5 seconds or less) | Current | 16.7A (at 100VAC) 25A (at 200VAC) | 8.4A (at 100VAC) 12.5A (at 200VAC) | Refer to "Peak output specification" |
| Power | | 400.8W (at 100VAC) 600W (at 200VAC) | 403.2W (at 100VAC) 600W (at 200VAC) | | |
| Output Characteristics | Factory setting | | 24V ±2% | 48V ±2% | At rated output |
| | Adjustable voltage range | | 24V +20%/-20% | 48V +15%/-15% | When setting the voltage higher than the rated voltage, use it within each rated output power. |
| | Static input regulation | | 94mV max. | 192mV max. | |
| | Static load regulation | | 150mV max. | 300mV max. | |
| | Temperature regulation | | 0.02%/°C max. | | |
| | Ripple voltage | 0 to +70°C | 120mV max. | 150mV max. | Connect 150mm max. lead wire to output connectors, and then connect a 10uF electrolytic capacitor with a 0.1uF ceramic capacitor in parallel to the other ends of the wires to measure by an oscilloscope with 100MHz frequency band. |
| | | -10 to 0°C | 160mV max. | 200mV max. | |
| | Spike noise Voltage | 0 to +70°C | 150mV max. | 250mV max. | |
| -10 to 0°C | | 180mV max. | 400mV max. | | |
| Protection circuit | Over current protection | OCP point | 101% min. of peak rated current | | |
| | | Method | Hold-down current limiting → Blocking oscillation | | |
| | | Recovery | Automatic recovery | | |
| | Over voltage protection | OVP point | 30.0 to 35.0V | 56.2 to 63.0V | |
| | | Method | Output shutdown | | |
| | | Recovery | Reclosing of AC input | | |

Note

出図

2020.7.03

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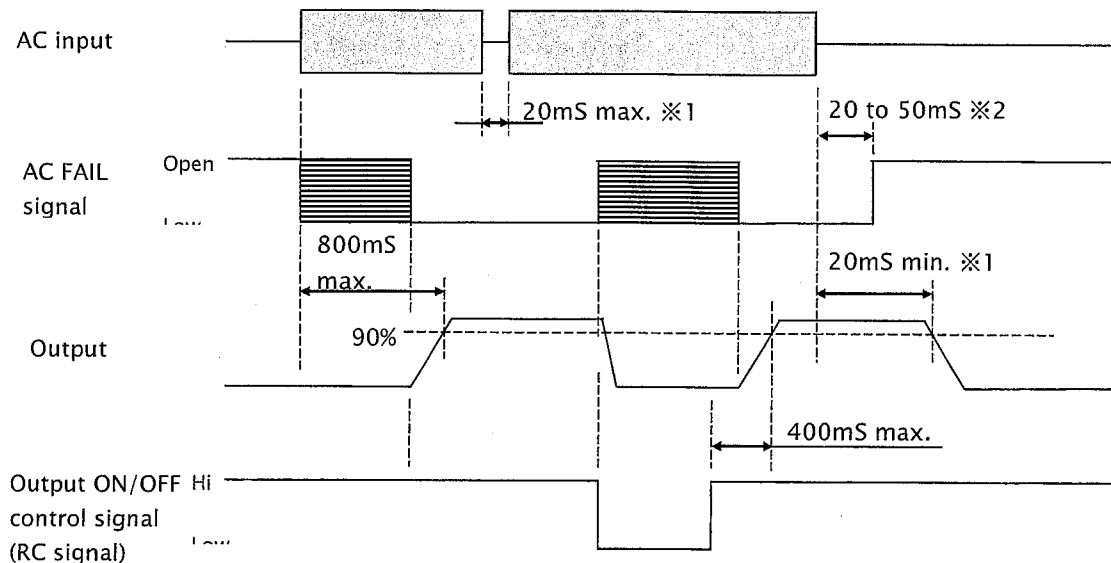
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| Drawn by Yodo | Checked by Yamada | Approved by Yamamoto | Model: OZP-240/600P _**_****_* | Drawing No. 3 6 6 9 - 0 1 - 4 - 5 2 0 3/11 |
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| Signal Input/Output specification | | Specification | | Signal Input/Output circuit diagram Others | | | | | | | | | | | | | | |
|---|--|---|---|--|--------|------------------|----|-------------------|-----|--------------------------|----------------------------|----------------|--------------|---------------|-------|-------------|-------|---|
| Items | OZP-240/600P- | | Circuit diagram | | | | | | | | | | | | | | | |
| | 24 | 48 | | | | | | | | | | | | | | | | |
| Input signal | Output ON/OFF control signal (RC signal) (Shorting Plug) With shorting plug (CN2) connected, output starts up when AC input is applied regardless of RC signal. To control Start/Stop of output by RC signal, uncap shorting plug of CN2. | <p><u>Operating mode</u></p> <table border="1"> <tr> <th>Between +RC and -RC</th> <th>output</th> </tr> <tr> <td>SW ON(4.5V min.)</td> <td>ON</td> </tr> <tr> <td>SW OFF(0.8V max.)</td> <td>OFF</td> </tr> </table> <p><u>External power supply and Load-limiting resistor</u></p> <table border="1"> <tr> <th>External power supply: E</th> <th>Load-limiting resistor : R</th> </tr> <tr> <td>4.5 to 12.5Vdc</td> <td>Not required</td> </tr> <tr> <td>12.5 to 30Vdc</td> <td>1.5kΩ</td> </tr> <tr> <td>30 to 48Vdc</td> <td>8.2kΩ</td> </tr> </table> | | Between +RC and -RC | output | SW ON(4.5V min.) | ON | SW OFF(0.8V max.) | OFF | External power supply: E | Load-limiting resistor : R | 4.5 to 12.5Vdc | Not required | 12.5 to 30Vdc | 1.5kΩ | 30 to 48Vdc | 8.2kΩ | <p>Note: Shorting plug (CN2) and radiating fin next to it are primary circuit components. Make sure to operate the plug after the AC input is turned off.</p> |
| | Between +RC and -RC | output | | | | | | | | | | | | | | | | |
| | SW ON(4.5V min.) | ON | | | | | | | | | | | | | | | | |
| | SW OFF(0.8V max.) | OFF | | | | | | | | | | | | | | | | |
| External power supply: E | Load-limiting resistor : R | | | | | | | | | | | | | | | | | |
| 4.5 to 12.5Vdc | Not required | | | | | | | | | | | | | | | | | |
| 12.5 to 30Vdc | 1.5kΩ | | | | | | | | | | | | | | | | | |
| 30 to 48Vdc | 8.2kΩ | | | | | | | | | | | | | | | | | |
| Remote Sensing signal (RS signal) | Input terminal for detection of output voltage. Connecting RS signal to positive side of devices, it shall compensate line-drop at positive side such as output cable. | | | | | | | | | | | | | | | | | |
| Current balance signal (CBsignal) ※ Only for [OZP-240/600P-**-*SE**] | Input terminal on current balance circuit. During parallel operation, Connect CB signal terminals of each power supply. | | Total output current at connecting N units in parallel shall be within "rated output current X N X 0.9" (N ≤ 5) | | | | | | | | | | | | | | | |
| Voltage balance signal (VBsignal) ※ Only for [OZP-240/600P-**-*SE**] | Input terminal on voltage balance circuit. During parallel operation, Connect VB signal terminals of each power supply. | | Higher VR setting value of output voltage shall be preferential. | | | | | | | | | | | | | | | |
| Output signal | Blackout detection signal (AC_FAIL) | The signal goes "OPEN" at low AC input voltage and power failure detection. Undefined when RC signal is OFF. Detection voltage: 80 V AC typ. Detection delay time: 20 to 50ms after AC input failure. | | <p><u>Circuit diagram</u></p> | | | | | | | | | | | | | | |
| | LED drive output ※ Only for [OZP-240/600P-**-*SE**] | Delivers "Hi" when main inverter circuit is operating and an external LED on PCB will light. The LED light turn off during main inverter circuit is shut down, such as circuit failure, AC fail, or OFF operation by "output ON/OFF control signal". | | Open voltage: 10V max. Max. current: 14mA(Built-in 680Ω) (Note) Even if the main inverter circuit is operating, the LED may dim or flicker under light load (10% or less) or pulse load. | | | | | | | | | | | | | | |



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●Sequence Timing diagram



※1 : Rated input, output 200W

Undefined area ※2 : If the output power is less than 10%, the input voltage is the maximum 170msec in the range of AC150V or more.

●Peak output specification

Peak output current shall meet the conditions below.

- Duty ratio of peak current shall be 30% or less
- Energized period of peak current shall be 5 seconds or less.
- The value resulting from the formula below shall not exceed the continuous rated current, I_o , after derating specified in "Output derating" item.

$$\sqrt{((I_p^2 \times D) + (I_m^2 \times (1 - D)))} \leq I_o$$

I_p = Peak current value

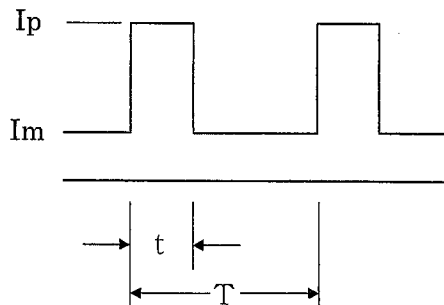
I_m = Min. current value

D = Duty ratio, t/T

t = Pulse width of peak current

T = Cycle

I_o = Continuous rated current specified in "Output derating" item

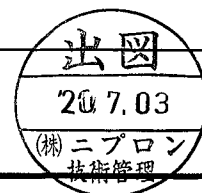


(Note)

In case that temp. of power thermistor for prevention of inrush current does NOT go up enough (Resistance value is high), such as the amount of average load power is small, output power at peak power might drop for about 100ms.

If this might cause any problem, please check output voltage waveform equipping and operating the power supply with actual device.

Note

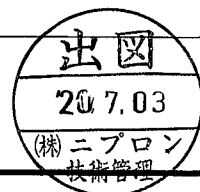
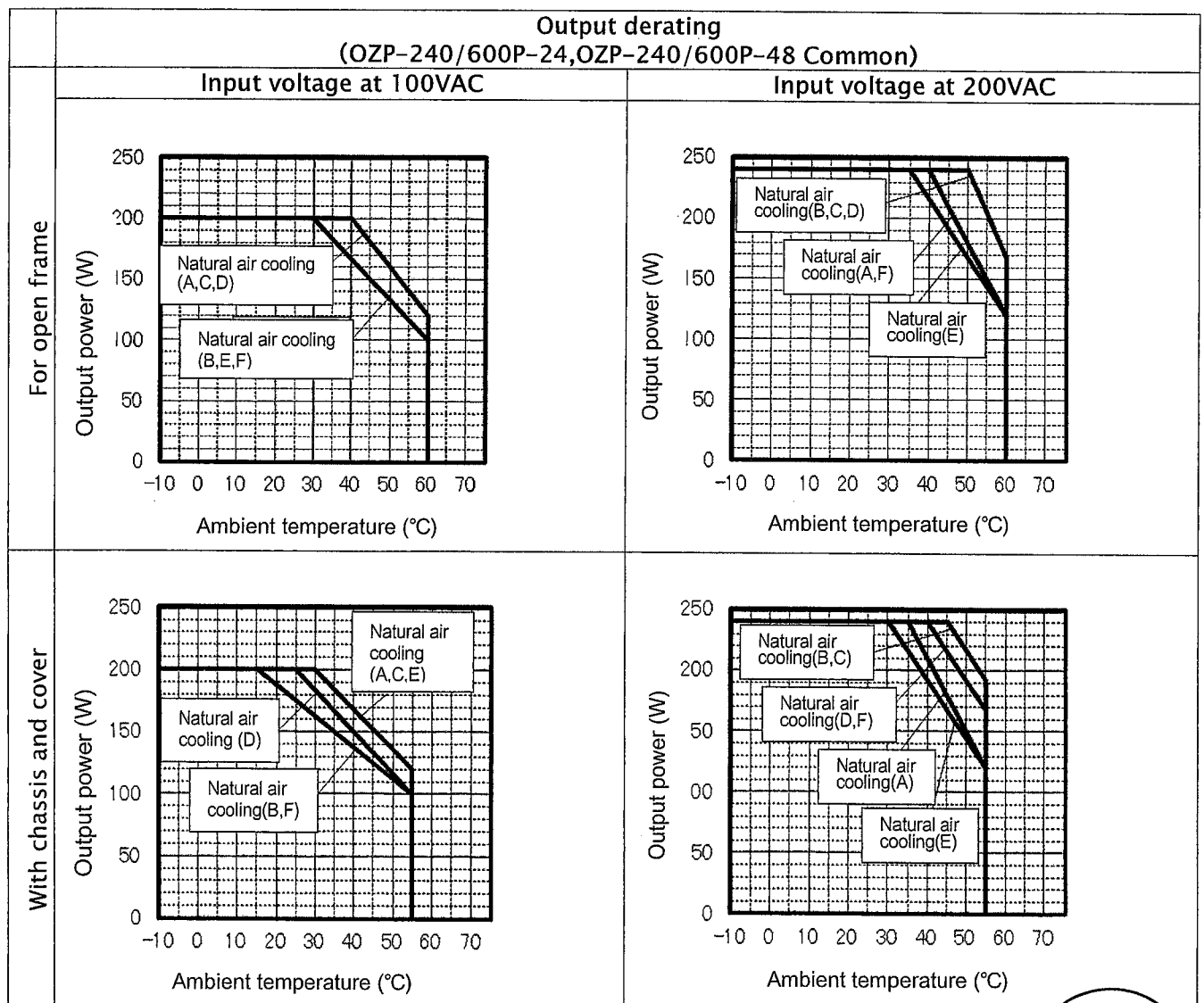
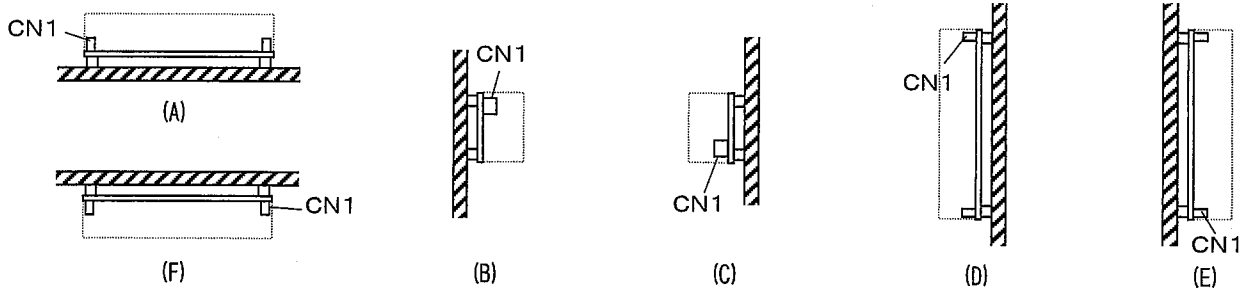


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●Output derating based on ambient temperature, installation direction and cooling condition

Follow the derating diagram below for output according to the ambient temperature and installation direction.

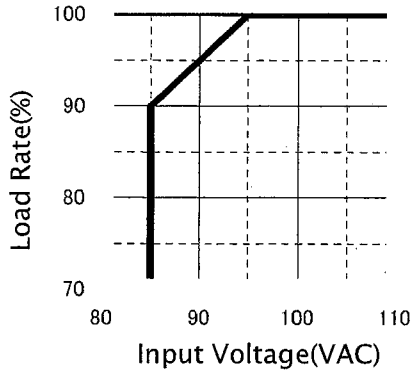
In addition, for the unit with chassis and cover, input voltage shall be 90 VAC or higher.



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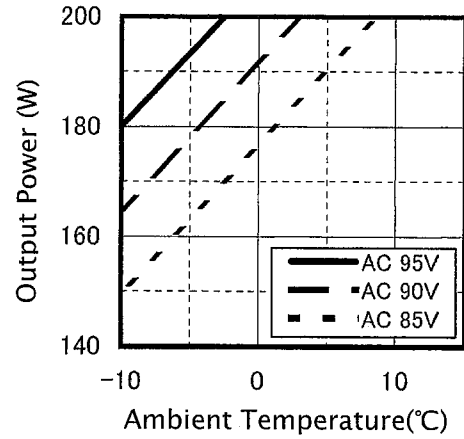
● Output derating vs. Input voltage

When input voltage is 95VAC or lower, follow the derating diagram below to reduce the continuous rated current and power.

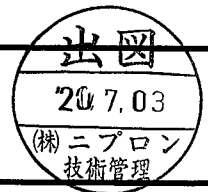


● Output derating at startup in low temperature

When starting the power supply in a low temperature, reduce the output power at a startup according to the derating table below.



Note



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●Parallel operation precautions (※Functions only for 'OZP-240/600P-**-*SE*-*')

By connecting the outputs of "N" power supplies in parallel, output capacity "rated output X N units X 0.9" will be obtained. (N≤5) In this case, please note the points written below.

(Connection)

- Please connect the dedicated cable (Model name:WH-02PH02PH-200) between the connectors "CN13" or "CN14" on the PCB of both power supplies connected in parallel.
By connecting between these connectors, output current balances for each power supply are controlled to be equal.
- Load wires from each power supply should be wired to make both impedance equal as much as possible.

(Output voltage adjustment)

- When adjusting the output voltage, set either one of the output voltage adjusting knob to the minimum (to the leftmost), and adjust the output voltage using the output voltage adjusting knob of the other power supply.

(Temperature increase)

- There might be heat increasing caused by installation interval, direction, and any shielding materials around power supply units when you connect in parallel. To avoid the heat increasing, please check temperature increasing with equipping actual device and operating. In case of the temperature of transformer(T1) core exceeds 80°C (indication value), please change the installation interval, direction, or cut down the output power to reduce the heat.

(LED indication)

- LED on the PCB light green when the main inverter circuit is operating. It blacks out at circuit failure, at AC input failure, or when the main inverter circuit stops by turning off the "Output ON/OFF control signal".
Even when the main inverter circuit is operating, if the output is close to no load (about 5W or less) or if it is a pulsed load, the LED may dim and flicker may occur.

(Others)

- Because it does not include O Ring diode in the output terminal, output power does not remain when one of the power supplies is damaged due to short mode etc. In addition, output power does not remain normally when power supply in operation is connected to the one in shutdown condition in parallel.

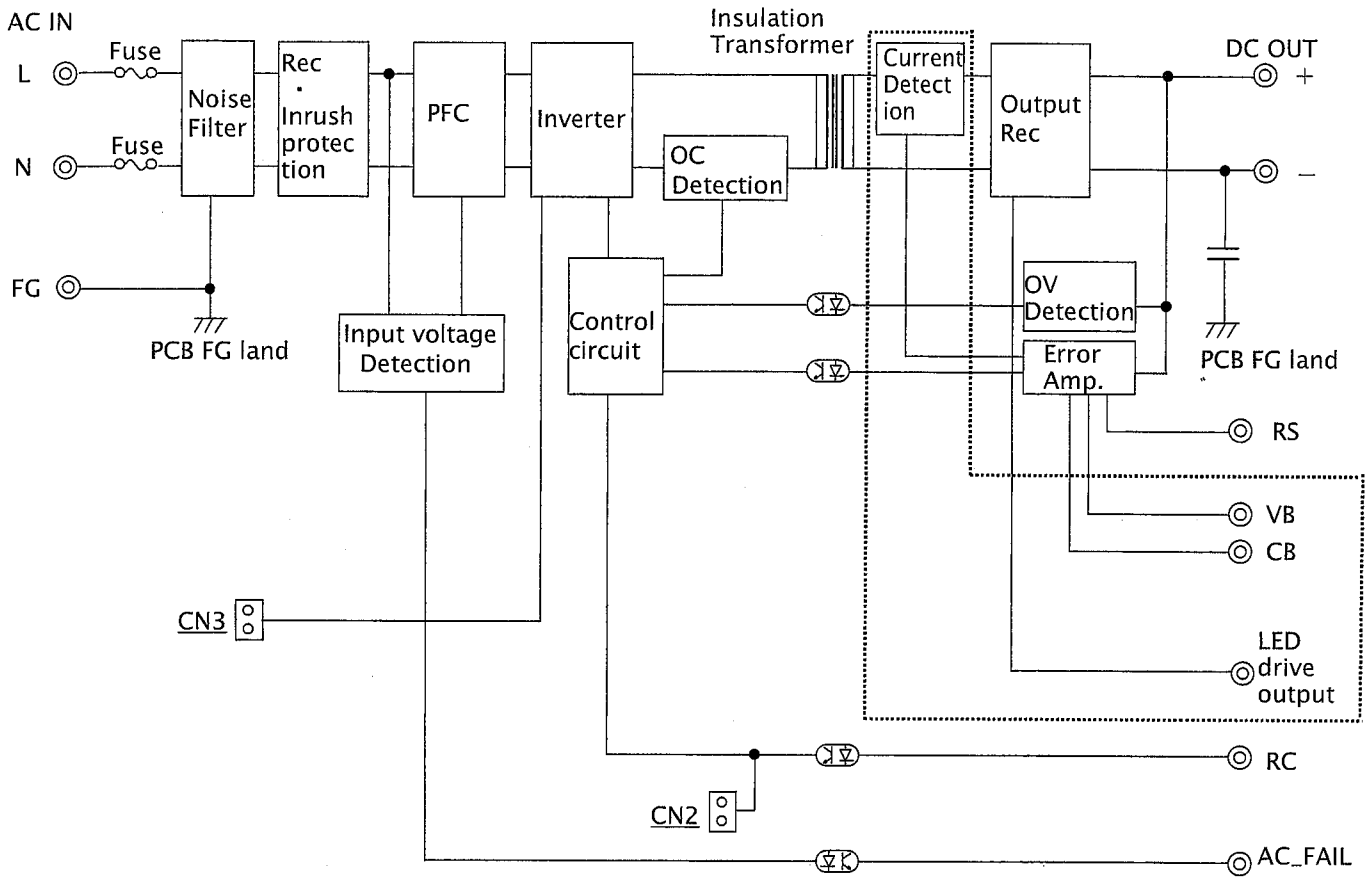
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● **Circuit block diagram**

(is applied to OZP-240/600P-**-*SE*-* type only)



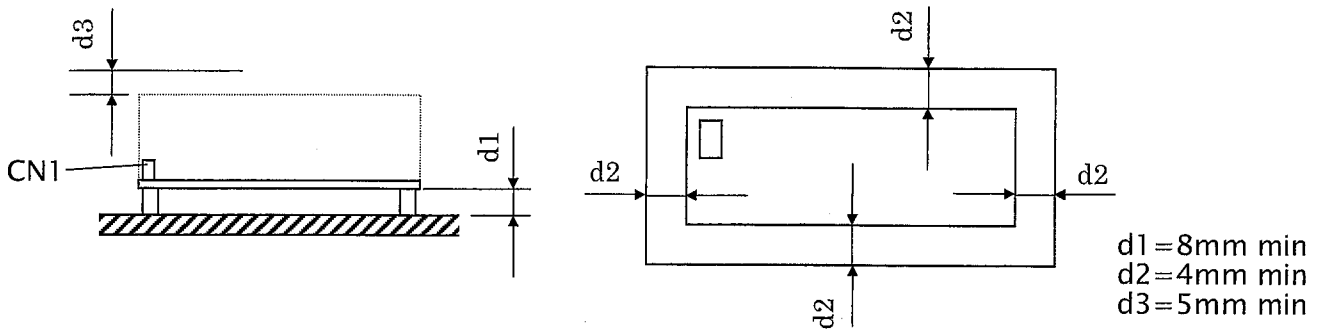
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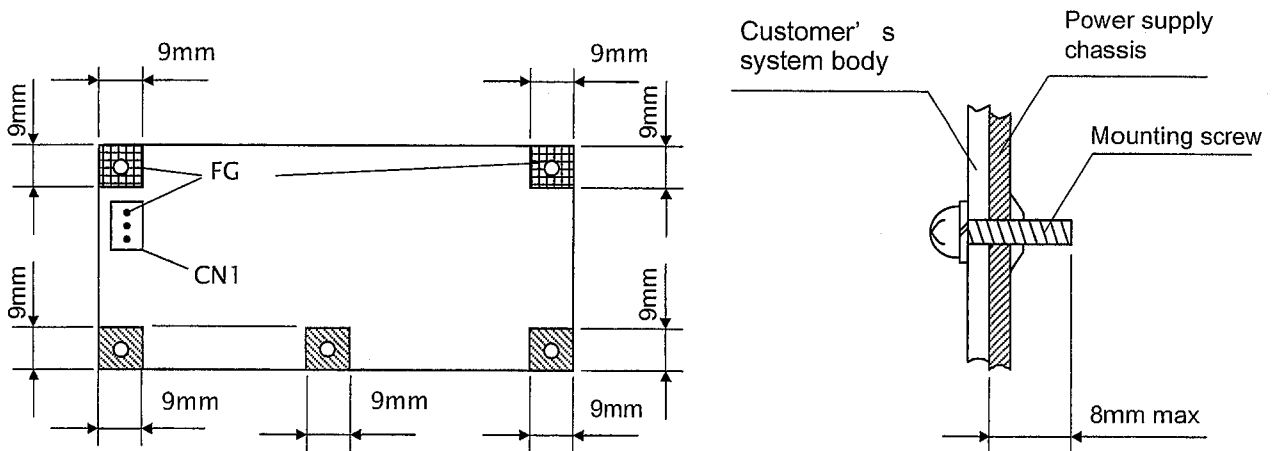
●Power supply installation

- To meet the standard of Insulation and dielectric withstanding, install the power supply to keep the dimensions, d1, d2, and d3, shown in the drawings below.
- install the power supply so that natural air convection and air ventilation are expected to keep the temperature rise around the power supply low.



●Mounting screws and grounding of power supply

- Fix all 5 screws firmly at power supply mounting holes.
- Use 3mm diameter screws for mounting power supply.
- Do not use the metal mounting parts that exceed the hatched area shown below.
- In mounting the unit with Chassis and Cover, do not use any screws that exceed the area shown below.
- Make sure to connect FG terminal of CN1 or FG portion of PCB to customer's safety grounding. Also, make sure to connect FG terminal of CN1 to the safety ground of the customer's system in the case of safety standard application.
- Be recommended to connect the FG portion of solder face of PCB to customer's metal system body, with metal parts such as metal spacers to reduce noise.










Note



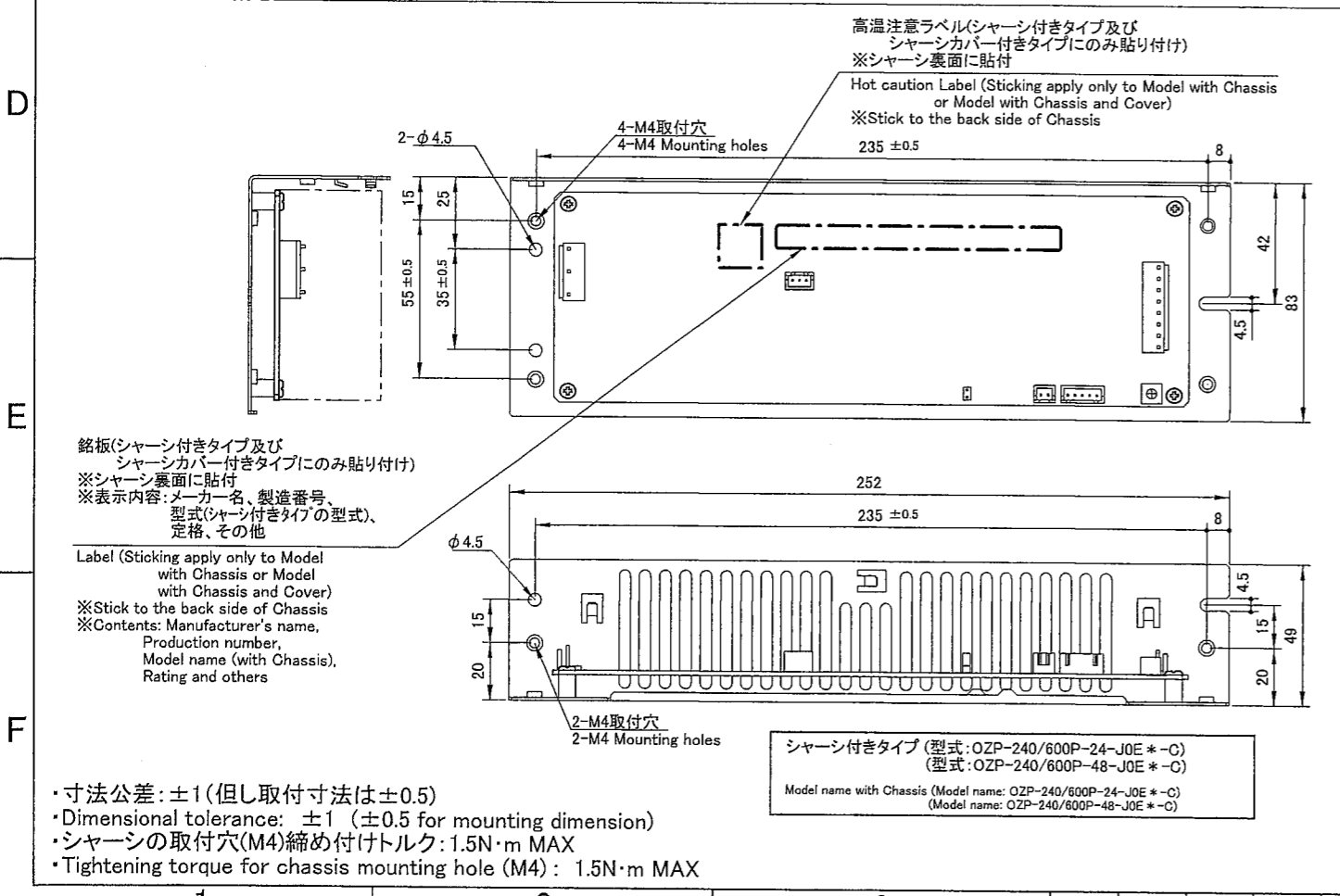
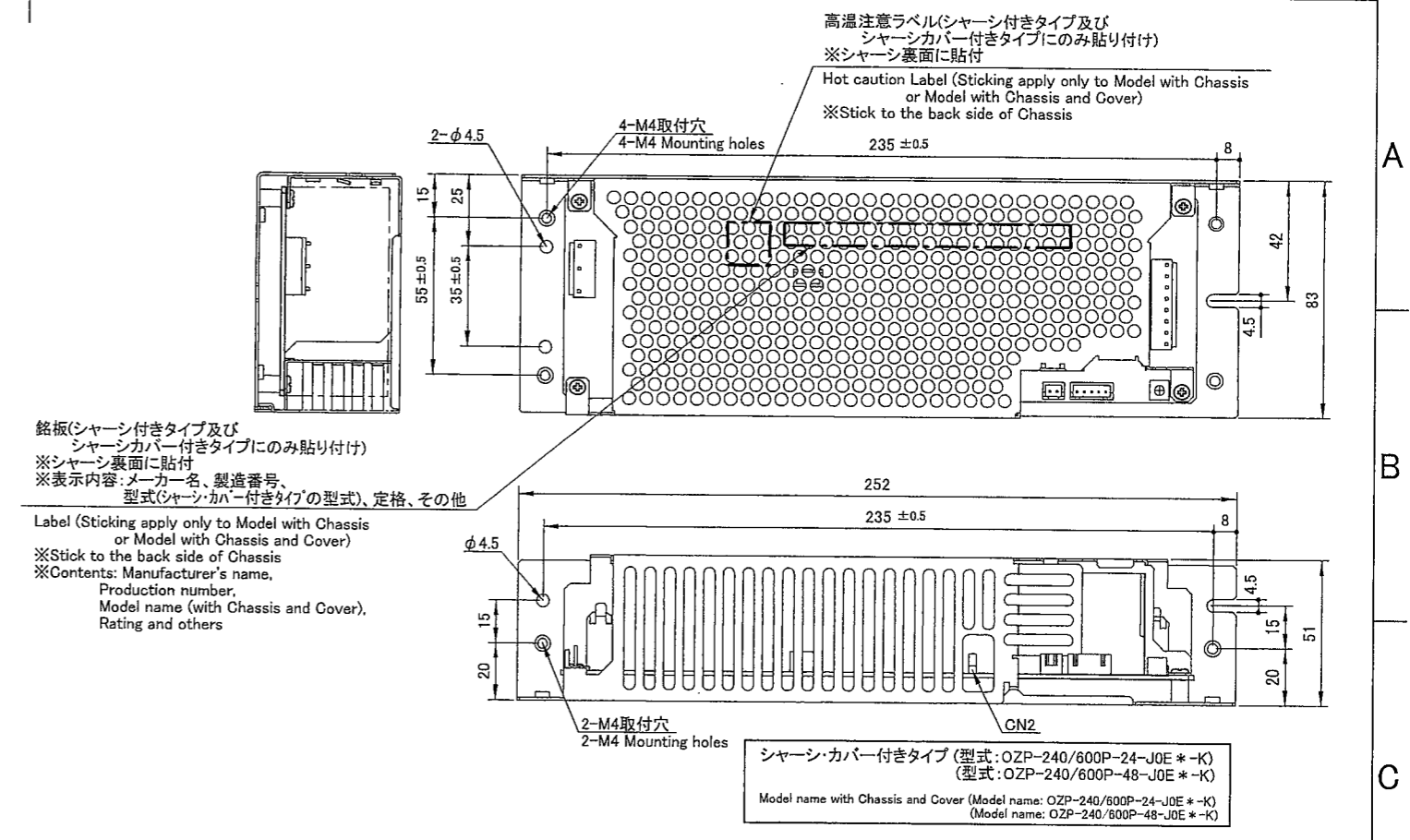
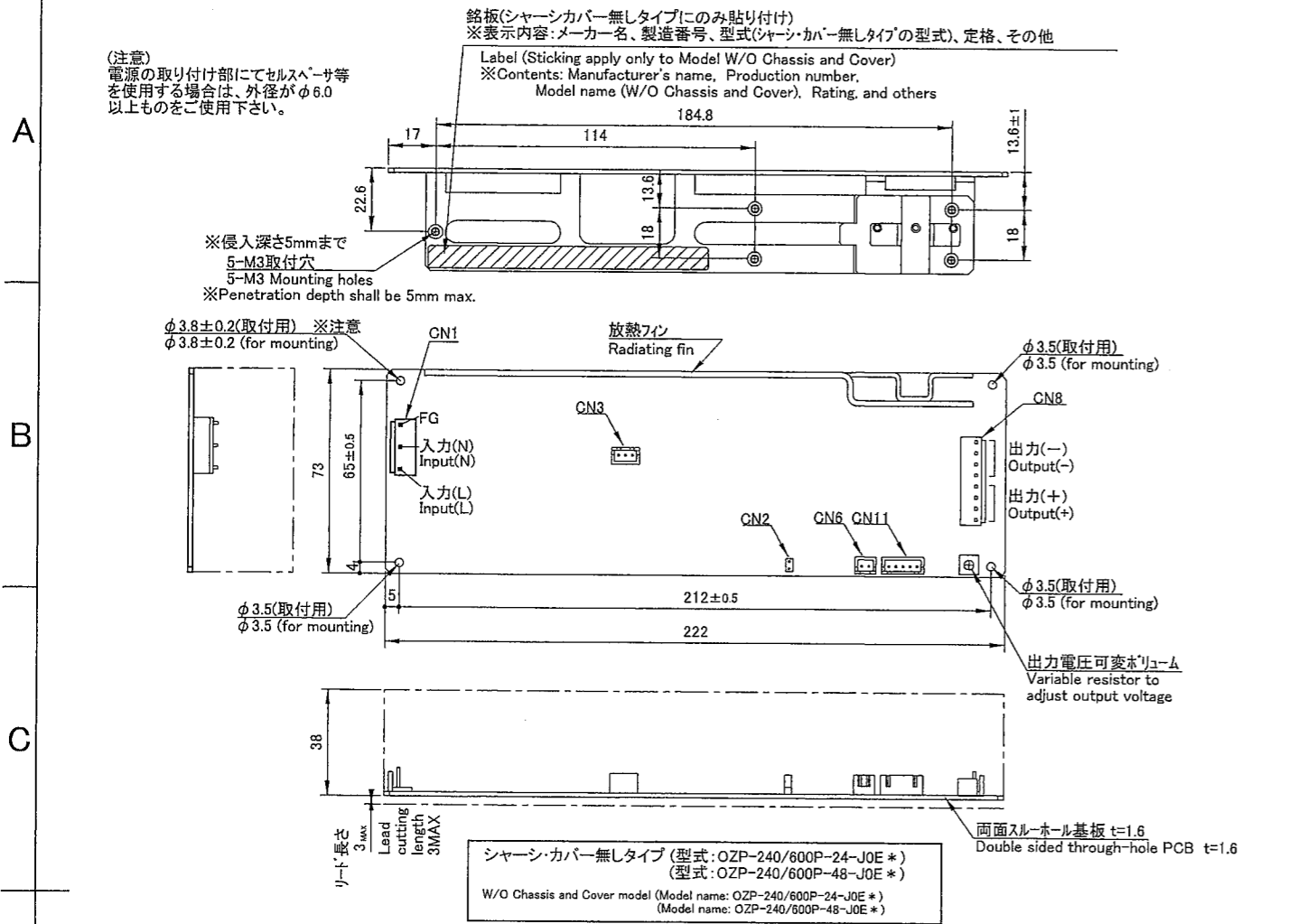
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●Precautions before use

1. Grounding  Warning
This unit is designed and produced to meet Class 1 equipment. Make sure to connect the grounding terminal of the unit to grounding in a proper way for safety.
2. Electric shock  Warning
This unit is designed and produced as built-in equipment and has high-voltage part inside. Make sure to securely install in the equipment in a proper way to prevent electric shock.
3. PCB handling  Caution
In handling, use the edge of the PCB so as not to touch the component sides. Lift the PCB from the equipment with filter pieces in installation. Besides, handle the PCB with care to prevent twisting or bending of the PC board as it has SMT components on it.
4. Output short circuit  Caution
Prevent shorting outputs.
When output is shorted, capacitors inside the power supply rapidly discharge leading to fire and/or spark resulting in serious accident. It also shortens the lifetime of the power supply.
5. Applying external voltage to output terminal  Caution
Applying external voltage to power supply's output terminal, parallel connection of output power, parallel connection of power supplies with different output (12V output and 15V output power supplies etc.) may lead to the failure of power supply.
6. Inrush current control circuit  Caution
To prevent inrush current into rectifying capacitors when AC input is turned on, a power thermistor is used. When AC input is turned on before the temperature of the thermistor goes low after turning off, huge inrush current may occur. Make sure to keep 60-second period at least before reclosing of AC input.
7. Output energy  Caution
The output energy of this unit is 240VA or more and regarded as dangerous.
Any operators must not touch the unit. Besides, apply necessary measures to prevent service personnel or service tools to touch accidentally the equipment with this unit installed. Make sure that the input/output voltage of this unit goes down to the safe level before servicing after the input voltage is turned off.



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※コネクタピンアサイン ※Connector pinout assignment

| CN1 (Input) | | | CN8 (Output) | | | CN6 (ON/OFF Control) | | | CN11 (Output signal) | | | |
|-------------|----------|----------------|--|--|--|--|----------|----------------|----------------------|----------|----------------|--|
| PIN No. | FUNCTION | CONNECTOR TYPE | PIN No. | FUNCTION | CONNECTOR TYPE | PIN No. | FUNCTION | CONNECTOR TYPE | PIN No. | FUNCTION | CONNECTOR TYPE | |
| 1 | AC(L) | B3P5-VH(JST) | 1~4 | -DC | B8P-VH(JST) | 1 | +RC | B2B-XH-A(JST) | 1 | RS | B5B-XH-A(JST) | |
| 2 | | | 5~8 | +DC | | 2 | -RC | | 2 | CB | | |
| 3 | AC(N) | | ※CN1 適合ハウジング: VHR-5N(JST) 適合ターミナル: リール:SVH-21T-P1.1(JST) バルク:BVH-21T-P1.1(JST) ※CN1 Applicable housing: VHR-5N(JST) Applicable terminals: Reel: SVH-21T-P1.1(JST) Bulk: BVH-21T-P1.1(JST) | ※CN8 適合ハウジング: VHR-8N(JST) 適合ターミナル: リール:SVH-21T-P1.1(JST) バルク:BVH-21T-P1.1(JST) ※CN8 Applicable housing: VHR-8N(JST) Applicable terminals: Reel: SVH-21T-P1.1(JST) Bulk: BVH-21T-P1.1(JST) | ※CN6 適合ハウジング: XHP-2(JST) 適合ターミナル: リール: SXH-001T-P0.6(JST) バルク: BXH-001T-P0.6(JST) ※CN6 Applicable housing: XHP-2(JST) Applicable terminals: Reel: SXH-001T-P0.6(JST) Bulk: BXH-001T-P0.6(JST) | ※CN11 適合ハウジング: XHP-5(JST) 適合ターミナル: リール: SXH-001T-P0.6(JST) バルク: BXH-001T-P0.6(JST) ※CN11 Applicable housing: XHP-5(JST) Applicable terminals: Reel: SXH-001T-P0.6(JST) Bulk: BXH-001T-P0.6(JST) | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | FG | | | | | | | | | | | |

| CN3 (Capacitor package Input/Output) | | |
|--------------------------------------|----------|----------------|
| PIN No. | FUNCTION | CONNECTOR TYPE |
| 1 | 380V(Pr) | B3B-XH-A(JST) |
| 2 | | |
| 3 | 0V(Pr) | |

※CN3 適合ハウジング:
XHP-3(JST)
適合ターミナル:
リール: SXH-001T-P0.6(JST)
バルク: BXH-001T-P0.6(JST)
※CN3 Applicable housing:
XHP-3(JST)
Applicable terminals:
Reel: SXH-001T-P0.6(JST)
Bulk: BXH-001T-P0.6(JST)



| | | | | | | | |
|-------------------|------------|------------|-------------|----------------------|-----------|--|---------------|
| DRAWN BY | CHECKED BY | CHECKED BY | APPROVED BY | SCALE | MATERIALS | TITLE | DRAWING NO. |
| 中川 | | | | UNITS | | | |
| ISSUED 2019.09.30 | | | | 3RD ANGLE PROJECTION | | 外観図(ナイロンコネクタモデル) Outside drawing (Nylon connector model) | 3669-01-3-050 |