

**Scope**

This specification applies to built-in DC stabilized power supply, OZP-200-3R3-\*\*E\*-\* and OZP-200-5-\*\*E\*-\*.  
 This power supply provides DC output at AC input instantaneous power failure by connecting dedicated capacitor package (DC output 380V)  
 In addition, all items in this specification shall be provided at normal temperature and humidity unless otherwise specified.

**Model name coding**

Example: OZ P - 200 - 5 - J S E - C  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Series name ..... “OZ”: OZ series
- ② Peak power ..... “P”: Corresponding to Peak power
- ③ Continuous output power ..... “200”: 200W
- ④ Output voltage ..... “3R3”: 3.3V, “5”: 5V
- ⑤ Input/Output connector type ..... “J”: Nylon connector, “T”: Harmonica Terminal block
- ⑥ Current balance function ..... “0”: W/O current balance function, “S”: With current balance function
- ⑦ Low standby power consumption..... “E”: Low standby power consumption type
- ⑧ Modification ..... “(Blank)”: Standard, “1 to 9” or “A to Z”: Modification symbol
- ⑨ Chassis ..... “C”: With Chassis, “K”: With Chassis and Cover, “Blank”: W/O Chassis and Cover

**General specification**

Items		Specification		Measurement conditions, etc.	
		OZP-200-3R3	OZP-200-5		
AC Input	Rated voltage	100 - 240 VAC		Worldwide range	
	Voltage range	85 - 264 VAC		Load factor shall be 90 to 100% at 85 - 95 VAC range.	
	Current	At 100VAC	1.7A typ.	2.4A typ.	At rated output (Natural air cooling)
			1.9A typ.	2.8A typ.	At rated output (Forced air cooling)
		At 200VAC	0.9A typ.	1.2A typ.	At rated output (Natural air cooling)
			1.0A typ.	1.4A typ.	At rated output (Forced air cooling)
	Rated frequency	50/60 Hz		Frequency range: 47 to 63Hz	
	Inrush current	At 100VAC	17A typ.		Power thermistor system Continuous rated output power with cold start at 25°C
		At 200VAC	34A typ.		
	Efficiency	At 100VAC	82% typ.	85% typ.	At rated output (Natural air cooling)
At 200VAC		85% typ.	88% typ.		
Power factor	At 100VAC	99% typ.		At rated output	
	At 200VAC	92% typ.	94% typ.		
No-load power	At 100VAC	1.3W typ.		Power consumption at No-load	
	At 200VAC	1.3W typ.			
Standby power	At 100VAC	60mW typ.		Power consumption at RC signal OFF	
	At 200VAC	200mW typ.			

Note

**出図**  
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Due to the technical improvement, the specifications and functions are subject to change without notice.

Items		Specification		Measurement conditions, etc.
		OZP-200-3R3	OZP-200-5	
Environment	Operating temp.	Natural air cooling	-10 to 60°C (Open frame single body) -10 to 55°C (With Chassis and Cover)	Refer to "Output derating specification."
		Forced air cooling	-10 to 70°C (Open frame single body) -10 to 70°C (With Chassis and Cover)	Refer to "Output derating specification."
			Operating humidity	20 – 90% RH
		Storage temp. / Humidity	-20 to 75°C / 10 to 95% RH	There shall be 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.	To follow JIS-C-60068-2-6 at no operation However, 1G for mounting only with heat releasing fin.	
	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	To follow JIS-C-60068-2-31 at no operation	
Insulation	Dielectric strength	3kVAC for 1min.between Input and Output/RC/AC_FAIL	Cut-off current: 10mA	
		2kVAC for 1 min. between Input and FG	Cut-off current: 10mA	
		500VAC for 1 min. between Output/RC/AC_FAIL/FG		
	Insulation resistance	50MΩ min. between Input/Output/RC/AC_FAIL/FG	With 500 VDC	
Leakage current	Refer to page.8			
Others	Electrostatic discharge	IEC61000-4-2 test level 3 compliant (Contact discharge: ±6kV, 10 times)	Apply to FG, Chassis or Cover. There shall be no malfunction	
	Line noise immunity	±2000V (Pulse width of 100/1000nS, cycle period of 30 to 100Hz, Normal/Common mode with Positive/Negative polarity for 10 minutes)	To be measured with INS-410. There shall be no output voltage fluctuation in DC component nor malfunction	
	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.	
	Conducted emission	VCCI, FCC, CISPR22, and EN55022 Class B compliant	At rated input and output, with chassis (natural air cooling)	
	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) acquired, CE marking, PSE (Ordinance item 2) compliant		
	Cooling system	Natural air cooling		
	Dimensions and Weight	73×40×222(W×H×D)/530g typ.	Except 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 (出図) (株)ニプロン・技管 environment.		

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Output Specification									
Items		Specification				Measurement conditions, etc.			
		OZP-200-3R3		OZP-200-5					
Output Rating	Rated Voltage	3.3V		5V		At rated input Refer to "Output derating specification."			
	Continuous rating (natural air cooling)	Current	40A		40A				
		Power	132W		200W				
	Continuous rating (forced air cooling)	Current	46A		46A				
		Power	151.8W		230W				
Peak rating (10 seconds or less)	Current	60A		60A		Refer to "Peak output specification" Natural cooling and forced cooling.			
	Power	198W		300W					
Output Characteristics	Factory setting		3.3V ± 2%		5.0V±2%		At rated output		
	Adjustable voltage range		3.3V + 20%, -10%		5.0V + 20%, -20%		At 5V or more, use it within rated output power.		
	Static input regulation		20mV max.		20mV max.				
	Static load regulation		40mV max.		40mV max.		Measured on the output terminal of the PCB.		
	Temperature regulation		0.02% / °C max.						
	Ripple voltage	0 to 65°C	80mVp-p 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	140mVp-p max.						
Spike noise voltage	0 to 65°C	120mVp-p max.							
	-10 to 0°C	160mVp-p max.							
Protection circuit	Overcurrent protection	OCP point	101% min. of peak rated current						
		Method	Hold-down current limiting → Blocking oscillation						
		Recovery	Automatic recovery						
	Overvoltage protection	OVP point	4.5 to 5.5V		6.5 to 7.5V		No applying external voltage to output terminal.		
		Method	Output shutdown						
Recovery	Reclosing of AC input								
Back-up time	Output power back-up functionality is available by connecting dedicated Capacitor package (sold separately) to CN3, connector on power supply board, using dedicated harness (sold separately). Please refer to right for more information of back-up time.		Capacitor package model name		Output power at back-up operation				(Note) The back-up time shown left is indication value, not guaranteed value.
					50W	100W	150W	200W	
			BS13A-EC400/422F (Charging time: 1 min. typ.)	3.3V	3.1 sec.	1.4 sec.	0.8 sec.	0.5 sec.	
				5V	2.7 sec.	1.2 sec.	0.7 sec.	0.4 sec.	
Note									

**出図**  
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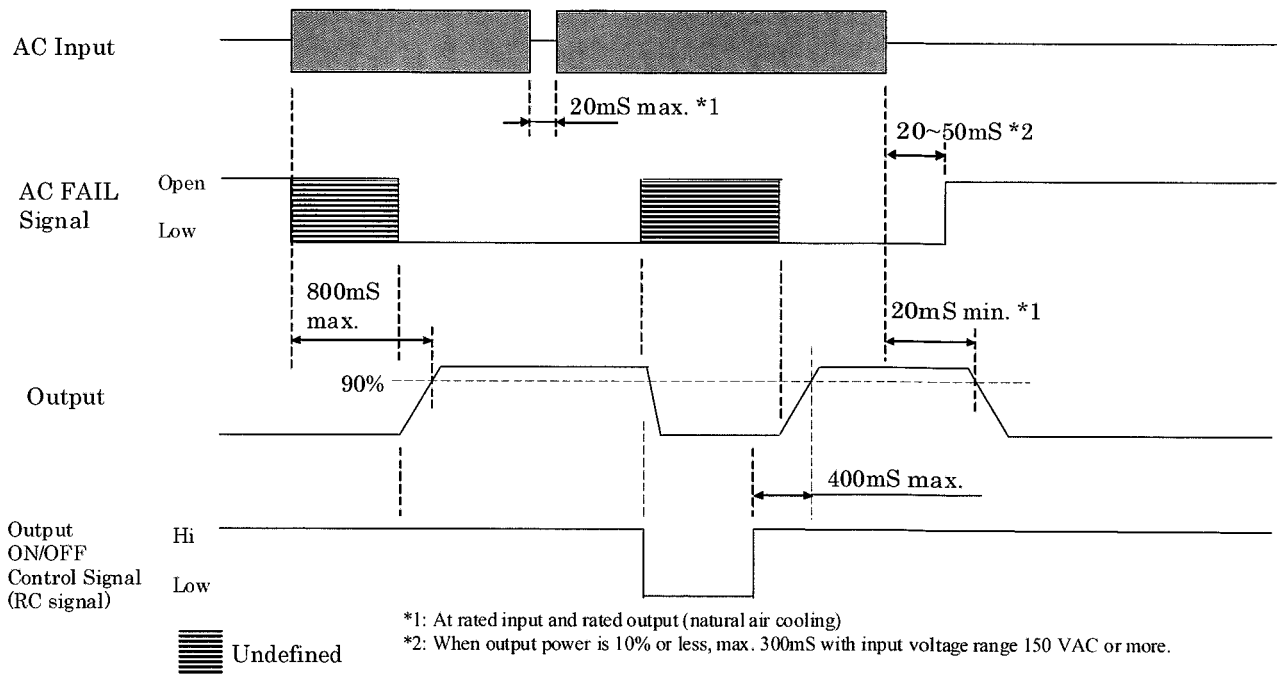
Signal Input/Output specification																	
Items	Specification		Signal Input/Output circuit diagram/Other														
	OZP-200-3R3	OZP-200-5															
Input signal	<p>Output ON/OFF control signal (RC signal)</p> <p><b>Shorting Plug</b> With shorting plug (CN2) connected, Output starts 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>	<p><b>Operation mode</b></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><b>External power supply and Load-limiting resistor</b></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>1.5k Ω</td> </tr> <tr> <td>&gt;30 VDC</td> <td>3.0k Ω</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	1.5k Ω	>30 VDC	3.0k Ω	<p><b>Circuit diagram</b></p> <p><b>Note:</b> 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	1.5k Ω																
>30 VDC	3.0k Ω																
Remote Sensing signal (RS signal)	Input terminal for detection of output voltage. Line-drop at positive side of output cable shall be covered by connecting RS signal to positive side of devices.																
Current balance signal (CB signal) <i>*Only for "OZP-200-*.SE*.*"</i>	Input terminal on current balance circuit. During parallel operation, connect CB signal terminals of each power supply	Total output current at parallel operation shall be within "rated output current x N x 0.9". (N ≤ 5)															
Voltage balance signal (VB signal) <i>*Only for "OZP-200-*.SE*.*"</i>	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)	To go "OPEN" when AC input goes down and power failure is detected.  Detection voltage: 80 VAC typ. Detection delay time: 20 - 50ms after blackout.															
	LED drive output	Delivers "Hi" when main inverter circuit is operating and an external LED on PWB will light. The LED 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 max. (680Ω: built-in)  (Note) LED light might flicker or darken at light load (10% max.) or at pulse load, even the main inverter circuit is operating.														

Note

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**●Sequence Timing diagram (W/O capacitor package connected)**



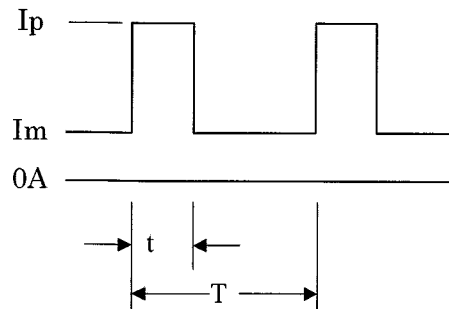
**● Peak output current specification**

Peak output current shall meet the specification below.

- Duty ratio of peak current shall be 45% or less.
- Energized period of peak current shall be 10 seconds or less.
- In the case that the ambient temperature is 50°C or higher with natural air cooling, the 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<sub>o</sub>, after derating specified in “Output derating” item.

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

- I<sub>p</sub> = Peak current value
- I<sub>m</sub> = Min. current value
- D = Duty ratio, t/T
- t = Pulse width of peak current
- T = Cycle
- I<sub>o</sub> = Continuous rated current specified in “Output derating” item.



(Note)

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

**出図**  
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Note

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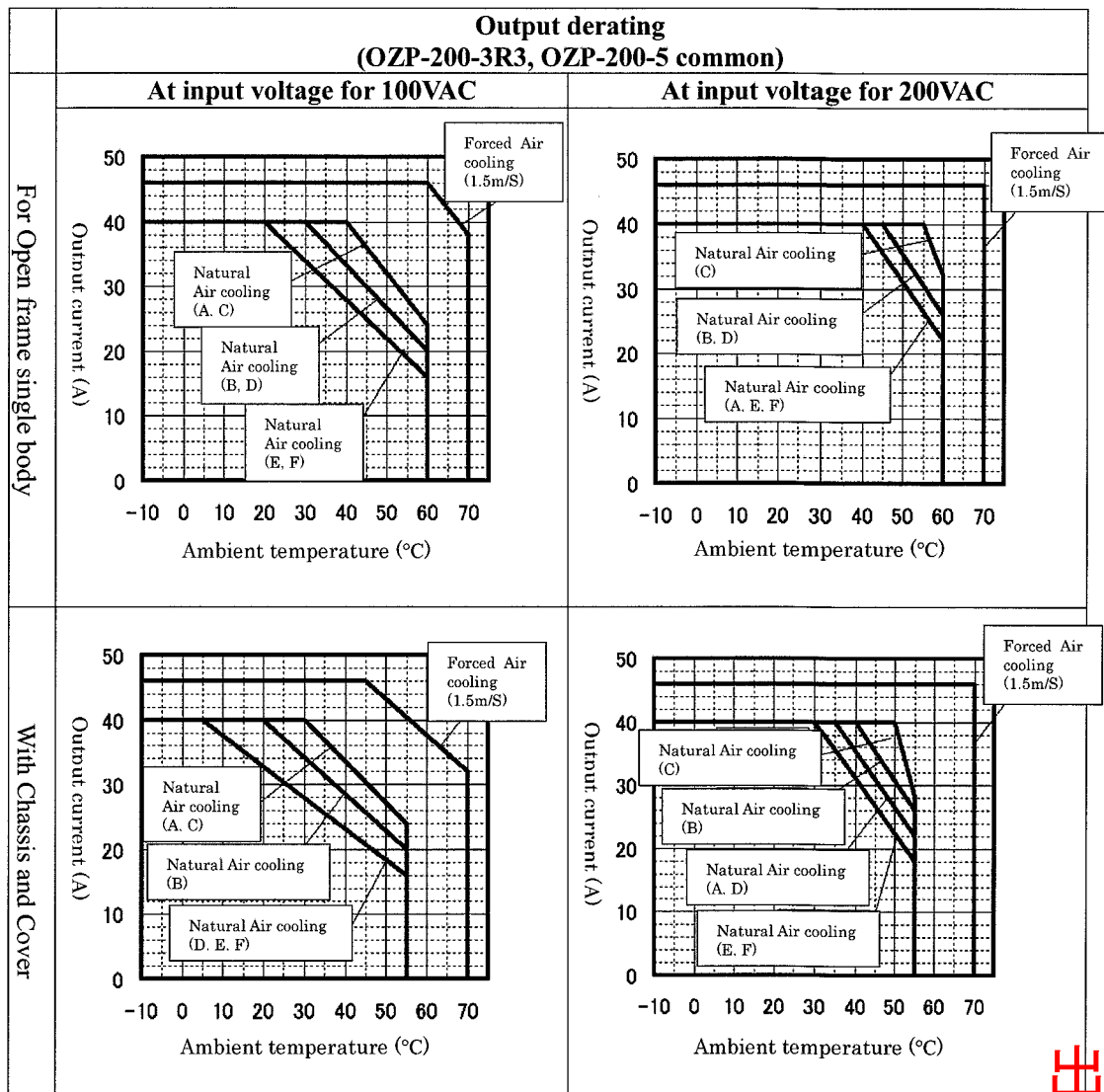
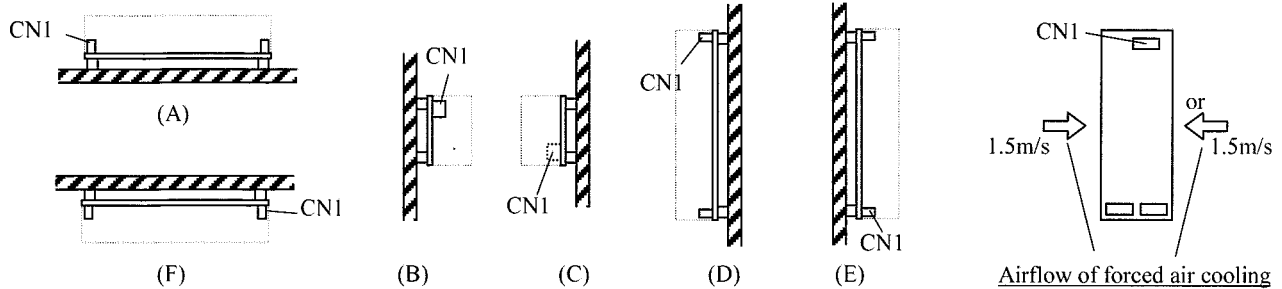
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**●Output derating based on ambient temperature, installation direction and cooling condition**

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 90VAC or higher. Also, forced air cooling condition in the diagram shall be provided that the air blow of 1.5m/s is applied from the direction below.



出図

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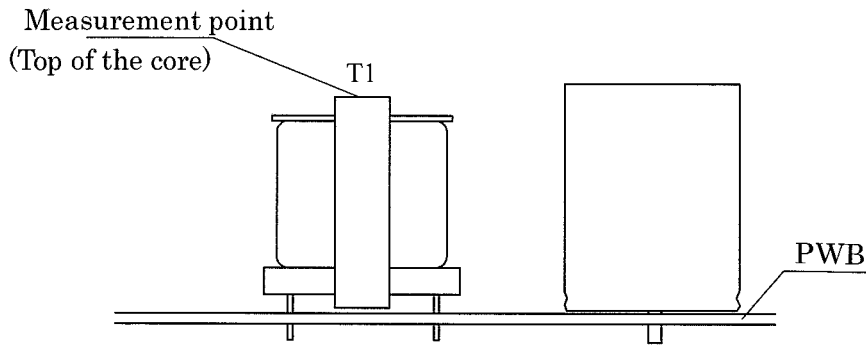
Drawn by	ishibashi	Checked	Yamada	Approved by	yamamoto	Model OZP-200-3R3-**E** OZP-200-5-**E**	Drawing No 3165-01-4-520 6/11
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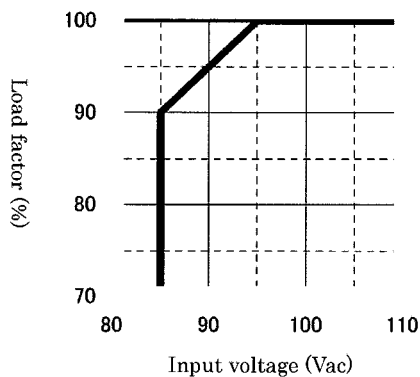
**Guideline for forced air cooling**

Set the core surface temperature of the transformer (T1) to 80°C or lower.



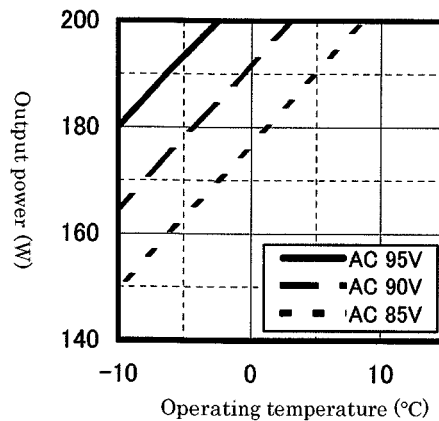
**● Output derating vs. Input voltage**

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



**● Output derating for startup at low temperature**

When power supply is operated at lower temperature, follow the derating diagram below to reduce the output power for startup.



Note

**出図**  
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Drawn by	ishibashi	Checked	Yamada	Approved by	yamamoto	Model	OZP-200-3R3-**E*-* OZP-200-5-**E*-*	Drawing No	3 1 6 5 - 0 1 - 4 - 5 2 0	7/11
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● Parallel running precautions

By connecting the outputs of N power supplies in parallel, output capacity “Rated output x N units x 0.9” will be obtained. In this case, please beware of the following. ( $N \leq 5$ )

(Connection)

- Please connect the applicable cable (Model type: 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 balance for each power supply is controlled to be equal.
- Load wires from each power supplies should be wired to make both impedance equal as much as possible.

(Usage)

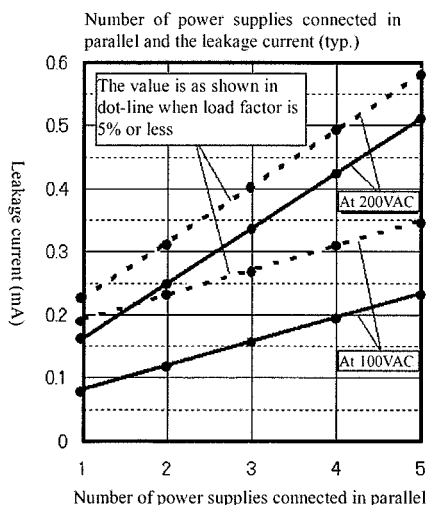
- When adjusting the output voltage, set either one of the potentiometer to the minimum (to the leftmost), and adjust the potentiometer of the other power supply.
- When starting up the power supply by AC input, operating waveform of output voltage may be tiered or dropped down (caused by the operation of overcurrent protection circuit) due to dispersion of startup time of the power supplies connected in parallel. It can be prevented by starting up each output at the same time using output ON/OFF control signal of both power supplies connected in parallel.

(LED indication)

- LED on the PCB light green when main inverter circuit is operating, and blacks out at circuit failure, AC input failure, or at main inverter circuit is stopped, by turning off “Output ON/OFF control signal” stops circuit. Also, there may be LED light darken or flickering at output power is with almost no load (about 0.2A or less), or at pulse load even main inverter circuit is operating.

(Leakage current)

- Please refer to the below for leakage current value at parallel connecting.



(Others)

- Because it does not include ORing 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.

出図

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Note

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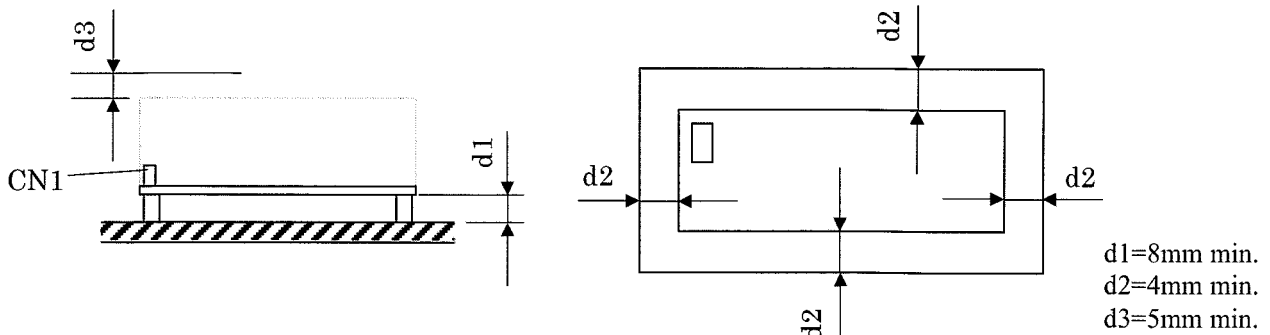




**● Power supply installation**

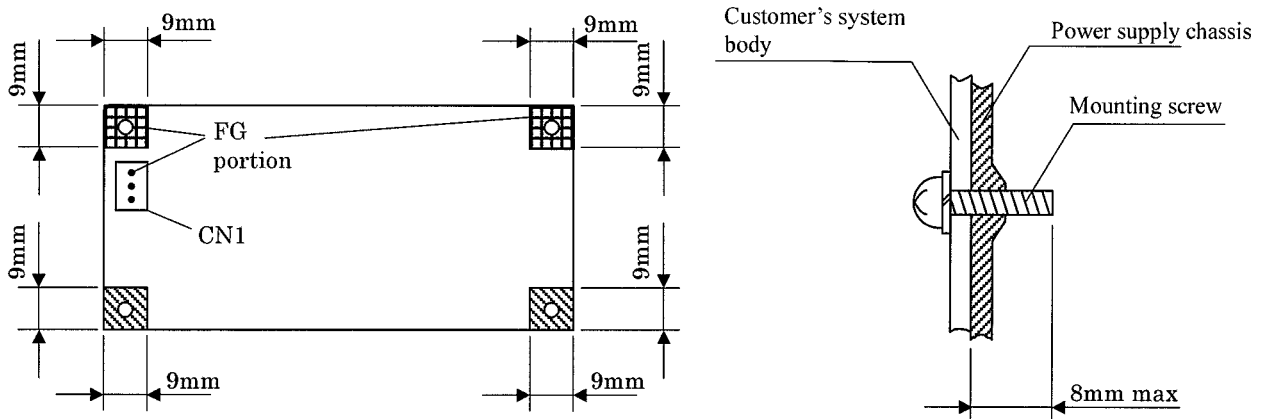
To meet the safety standard for insulation and dielectric withstand, install the power supply to keep the dimensions, d1, d2, and d3, shown in the drawings below.

Install the power supply so that natural air convection and air ventilation is expected to keep the temperature rise around the power supply low.



**● Mounting screws and grounding of power supply**

- Fix all four screws firmly at power supply mounting holes.
- Use 3mm diameter screws for mounting power supply.
- In mounting, do not use any metal 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 PWB 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 PWB to customer's metal system body with metal parts such as metal spacers to reduce noise.



Note

**出図**  
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Drawn by	ishibashi	Checked	Yamada	Approved by	yamamoto	Model	OZP-200-3R3-**E*-*	Drawing No	3 1 6 5 - 0 1 - 4 - 5 2 0
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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. Also, shorting plug (CN2) for RC signal setting and radiating fin next to it are primary circuit components. When the plug is handled, make sure to turn off AC input before the handling of the plug.
3. PWB handling - ⚠ Caution  
In handling, use the edge of the PWB so as not to touch the component sides. Lift the PWB from the equipment with filter pieces in installation. Besides, handle the PWB 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 without connecting voltage and current balance signal (CN13 or CN14), parallel connection of power supplies with different output (3.3V output and 5V 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 output voltage of this unit goes down to the safe level before servicing after the input voltage is turned off.

出図

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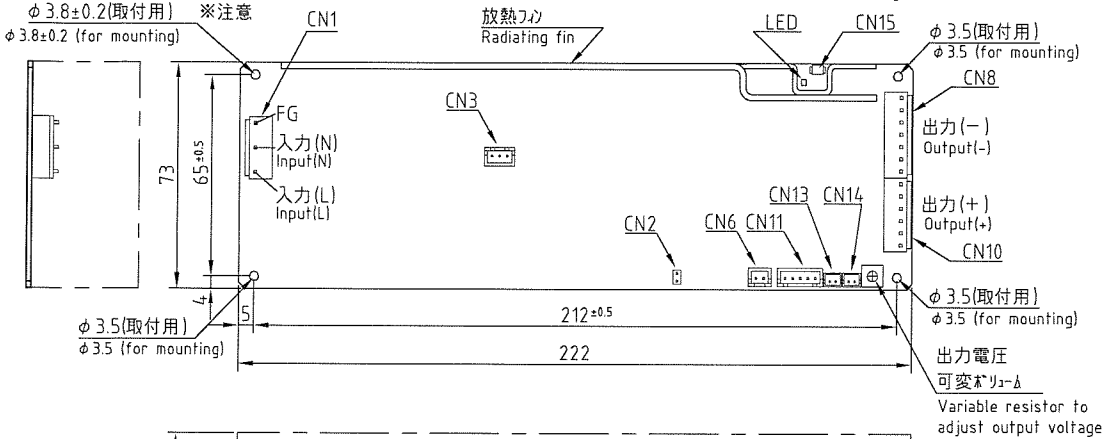
Due to the technical improvement, the specifications and functions are subject to change without notice.

(注意)  
電源の取り付け部にてM4等を使用する場合は、外径がφ6.0以上ものをご使用下さい。

銘板 ※表示内容：メーカ名、製造番号、その他  
Label ※Contents: Manufacturer's name, Production number, and others

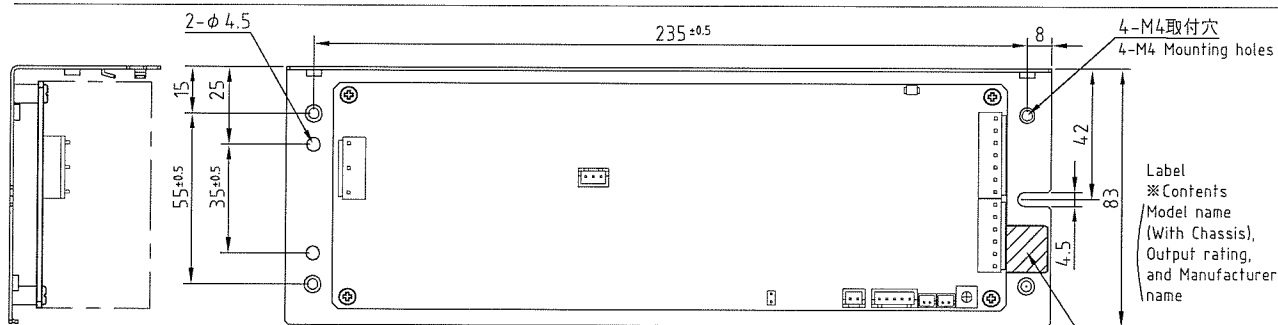
※侵入深さ5mmまで  
5-M3取付穴  
5-M3 Mounting holes  
※Penetration depth shall be 5mm max.

※表示内容：型式(シャシ・カバー無しタイプの型式)、定格、その他  
Label ※Contents: Model name (W/O Chassis and Cover), Rating, and others

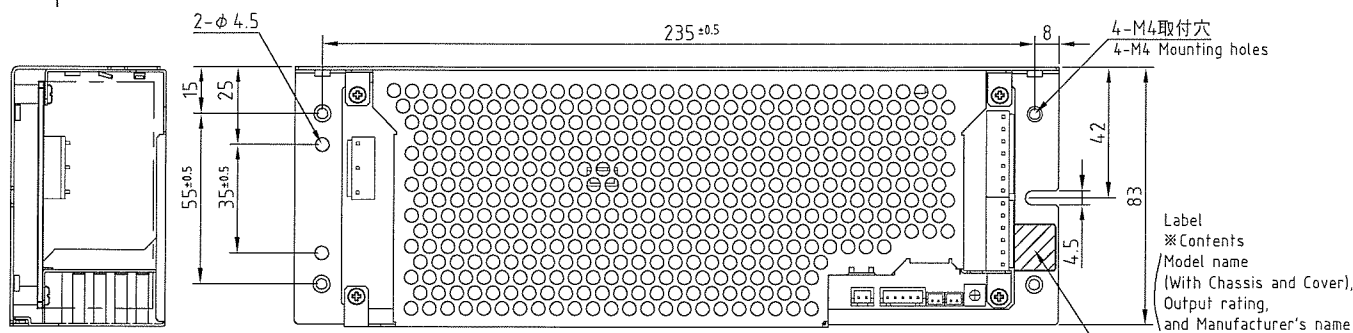


シャシ・カバー無タイプ (型式：OZP-200-3R3-J\*E\*)  
(型式：OZP-200-5-J\*E\*)  
W/O Chassis and Cover model (Model name: OZP-200-3R3-J\*E\*)  
(Model name: OZP-200-5-J\*E\*)

両面入孔基板 t=1.6  
Double sided through-hole PCB t=1.6



シャシ付タイプ (型式：OZP-200-3R3-J\*E\*-C)  
(型式：OZP-200-5-J\*E\*-C)  
Model name with Chassis (Model name: OZP-200-3R3-J\*E\*-C)  
(Model name: OZP-200-5-J\*E\*-C)



シャシ・カバー付タイプ (型式：OZP-200-3R3-J\*E\*-K)  
(型式：OZP-200-5-J\*E\*-K)  
Model name with Chassis and Cover (Model name: OZP-200-3R3-J\*E\*-K)  
(Model name: OZP-200-5-J\*E\*-K)

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

Pin No.	FUNCTION	CONNECTOR TYPE
<b>CN1 (Input)</b>		
1	AC(L)	B3P5-VH (JST)
2	AC(N)	
3	AC(L)	
4	AC(N)	
5	FG	
※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) パネル：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)		
<b>CN10 (Output)</b>		
1~6	+DC	B6P-VH (JST)
※CN10 適合ハウジング：VHR-6N (JST) 適合ターミナル： リール：SVH-41T-P1.1 (JST) パネル：BVH-41T-P1.1 (JST)		
※CN10 Applicable housing: VHR-6N (JST) Applicable terminals: Reel: SVH-41T-P1.1 (JST) Bulk: BVH-41T-P1.1 (JST)		
<b>CN8 (Output)</b>		
1~7	-DC	B7P-VH (JST)
※CN8 適合ハウジング：VHR-7N (JST) 適合ターミナル： リール：SVH-41T-P1.1 (JST) パネル：BVH-41T-P1.1 (JST)		
※CN8 Applicable housing: VHR-7N (JST) Applicable terminals: Reel: SVH-41T-P1.1 (JST) Bulk: BVH-41T-P1.1 (JST)		
<b>CN6 (ON/OFF Control)</b>		
1	+RC	B2B-XH-A (JST)
2	-RC	
※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) パネル：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)		
<b>CN11 (Output signal)</b>		
1	RS	B5B-XH-A (JST)
2	CB	
3	OVP	
4	+AC FAIL	
5	-AC FAIL	
※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) パネル：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)		
<b>CN13, CN14 (Current/Voltage Balance Signal)</b>		
1	VB	B2B-PH-K-S (JST)
2	CB	
※CN13, CN14 適合ハウジング：PHR-2 (JST) 適合ターミナル： リール：SPH-002T-P0.5S (JST)		
※CN13, CN14 Applicable housing: PHR-2 (JST) Applicable terminals: Reel: SPH-002T-P0.5S (JST)		
<b>CN15 (LED Drive Output)</b>		
1	+LED	53261-0271 (MOLEX)
2	-LED	
※CN15 適合ハウジング：51021-0200 (MOLEX) 適合ターミナル： リール：50079-8000 (MOLEX) パネル：50079-8100 (MOLEX)		
※CN15 Applicable housing: 51021-0200 (MOLEX) Applicable terminals: Reel: 50079-8000 (MOLEX) Bulk: 50079-8100 (MOLEX)		
<b>CN3 (Capacitor package Input/Output)</b>		
1	380V(Pri)	B3B-XH-A (JST)
2	0V(Pri)	
3	0V(Pri)	
※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) パネル：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)		

- 寸法公差：±1 (但し取付寸法は±0.5)
- Dimensional tolerance: ±1 (±0.5 for mounting dimension)
- シャシの取付穴(M4)締め付けトルク：1.5N・m MAX
- Tightening torque for chassis mounting hole (M4) : 1.5N・m MAX

DRAWN BY	CHECKED BY	CHECKED BY	APPROVED BY	SCALE	MATERIALS	TITLE
石橋	原	山田	山本	1/1		OZP-200-3R3-J*E* OZP-200-5-J*E* 外觀図(ナイロンコネクタモデル) Outside drawing (Nylon connector model)
ISSUED	2012. 6. 1			3RD ANGLE PROJECTION	FINISH	DRAWING NO. 3165-01-3-050

