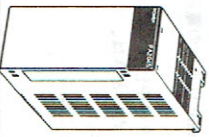


OMRON

SYSMAC C SERIES Type C200HW-PA204S Power Supply Unit

INSTRUCTION SHEET

Thank you for purchasing this OMRON TYPE C200HW-PA204S Power Supply Unit. Please read this instruction sheet and the reference manual of the relevant unit type for safe use of the product. Please contact your nearest sales office to get the latest reference manual. Please retain this sheet and reference manual for future reference and hand them over to the end users.



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■ Definition of Precautionary Information

⚠ WARNING Not following a precaution given as a "WARNING" may result in fatal or serious injury.

⚠ Caution Not following a precaution given as a "Caution" can result in injury to people or damage to the product or system.

■ Warnings and Caution

⚠ WARNINGS Do not attempt to take the unit apart and do not touch any internal parts while the power is being supplied. Doing either of these may result in electrical shock. Do not touch any of the terminals while the power is being supplied. Doing so may result in electrical shock.

⚠ Caution Tighten the screws on the terminal block of the AC Power Supply Unit to the torque specified in relevant manuals. The loose screws may result in short-circuit, malfunction, or burning.

Precautions

- Install an external breaker and take other safety measures against short-circuiting in external wiring.
- Tighten the screws of the Power Supply Unit and the terminal block to the torque specified in relevant manuals.
- Always use the power supply voltage specified in this instruction sheet, or the reference manuals.
- In locations where the power supply is ill-conditioned, in particular, ensure that the power with the rated voltage and frequency is supplied.
- Use crimp terminals for wiring. Do not connect bare stranded wires directly to the terminal block.
- Be sure to leave the dust-proof labels attached on the Unit when wiring.

- Remove the labels after the completion of wiring to ensure proper heat dissipation.
- Always connect to a class-3 ground (to 100Ω or less) when installing the Unit.
- Always turn on the power after checking wiring and connections of the fitting for switching the power supply voltage.
- Disconnect the functional ground terminal (Ⓜ) when performing withstand voltage tests.
- Always turn off the power supply to the PC before attempting any of the following:
 - Assembling the Unit.
 - Connecting or wiring the cables.
 - Do not attempt to disassemble, repair, or modify the Unit.

Correct Use

- Install the C200HW-PA204R properly as specified in the reference manuals.
- Do not install the C200HW-PA204R in any of the following locations:
 - Locations subject to direct sunlight.
 - Locations subject to temperatures or humidity outside the range specified in the applications.
 - Locations subject to condensation as the result of severe changes in temperature.
 - Locations subject to corrosive or flammable gases.
 - Locations subject to dust, salts, iron dust.
 - Locations subject to exposure to water, oil or chemicals
 - Locations subject to shock or vibration
- Take appropriate and sufficient countermeasures when installing the system in the following locations:
 - Locations subject to static electricity or other forms of noise
 - Locations subject to strong electromagnetic fields
 - Locations subject to possible exposure to radioactivity
 - Locations close to power supplies

Reference manual

Formal/Manual Name	Manual No.
C200HX/HG/HE Installation Guide	W302

1 Specifications

General Specifications
Conform to the SYSMAC C200HX/HG/HE. See the reference manuals for details.

Performance Specifications

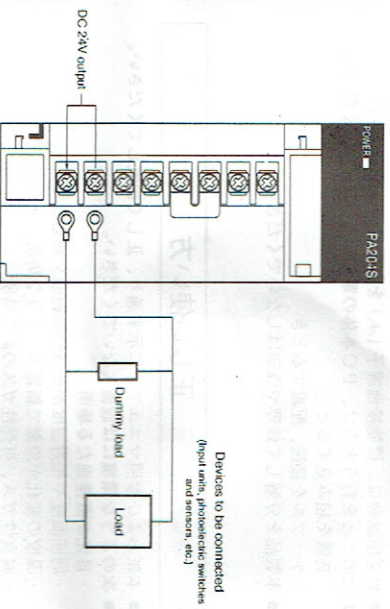
Item	Specification
Power supply voltage	AC 100 to 120V/200 to 240V
Allowable power supply voltage fluctuation range	AC 85 to 132V/170 to 264V
Power consumption	120VA max.
Fush current	30A max.
Insulation resistance	Between set of power supply terminals and GR terminals: 20MΩ (measured with DC500V megger)
Withstand voltage	Between set of power supply terminals and GR terminals: AC 2300V (50/60Hz) one minute Leakage current 10 mA max.
DC 24V output	0.8A However, total power consumption of power supply to the base unit at 5V and 26V, and to the DC 24V outputs shall be 30W or less
Weight	450 g max.
External dimensions	54(W) × 130(H) × 100(D)

• DC24V output fluctuates depending on the load current. Be sure to check the rated current and rated voltage of devices to be connected before use.

DC24V load current	0.3A or less	over 0.3A
Voltage tolerance at 24V	+17%	+10%
Lot number 0197 or later	-11%	-11%
Voltage tolerance at 24V	+10%	-20%
Lot number 3187 or former		

LOT NO. 01 9 7
Year (e.g., 1997-97)
Month (Jan.-Sep.-9, Oct./Nov./Dec.-XYZ)
Day (01-31)

• When the voltage tolerance of this device is exceeded, it is advisable to connect a dummy load as shown below.



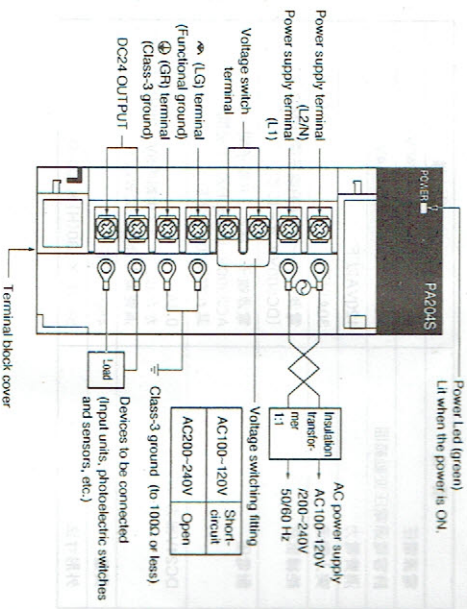
2 Mounting method

- (1) Hook the fixing claw at the top of the back side of the Unit onto the base unit and push it so that the connector is fit in correctly.
- (2) Tighten the screws at the bottom of the Unit with a Phillips type screwdriver.
Tighten them to torque of 0.8N·m

3 Wiring method

Precautions

- Be sure to leave the labels attached on the Unit when wiring in order to prevent wiring cuttings from entering the Unit.
- Remove the labels after the completion of wiring to ensure proper heat dissipation.
- The terminal block uses M3.5 self-up screws. Use M3.5 round crimp terminals for wiring. Do not connect bare stranded wires directly to the terminal block.
- Tighten the screws of the terminal block to torque of 0.8N·m.



■ Power supply wiring

- Supply the power of AC 100 to 120 V (50/60Hz) or AC 200 to 240V (50/60Hz).

- When using the voltage switching terminal at AC 100V, short-circuit it with a fitting. When using it at AC 200V, be sure to leave it open.
- Connect Neutral or Grounded line to "L2/N" terminal when applicable.
- Use a wire of 1.25 mm² min. (2 mm² max.) to avoid voltage drop.
- Use round crimp terminals for wiring.

⚠ Caution Tighten the screws on the terminal block of the AC Power Supply Unit to torque of 0.8N·m. The loose screws may result in short-circuit, malfunction, or burning.

■ Wiring of ground wire

- Be sure to apply class-3 ground to Ⓜ (GR) independently to prevent electrical shock. Use a ground wire of 1.25 mm² min. (2 mm² max.) and do not use it as a ground for other devices.
- Ⓜ (LG) is a noise filter neutral terminal. When the product malfunctions due to large noise or when you want to prevent a lightning attack, short-circuit it with Ⓜ (GR) and use a dedicated class-3 ground.
- See the reference manuals for details.

Precautions

You must allow sufficient leeway in ratings and performance and provide proper fail-safe and other safety measures when using the Unit in any of the following applications. Be sure also to consult with your OMRON representative before actually attempting any of these applications:

1. Applications under conditions or environments not specified in reference manuals.
2. Applications for nuclear reactor control, train facilities, aviation facilities, motorized vehicles, furnaces, medical equipment, amusement equipment, and safety equipment.
3. Applications strongly related to human life or property, particularly those requiring safety.

OMRON

OMRON Corporation
Systems Components Division

66 Matsunomi
Mishima-city, Shizuoka 411-8511
Japan
Tel: (81)559-77-9639/Fax: (81)559-77-9097

Regional Headquarters

OMRON EUROPE B.V.
Wegalaan 67-69, NL-2132 JD Hoofddorp
The Netherlands
Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ELECTRONICS, INC.
1 East Commerce Drive, Schaumburg, IL 60173
U.S.A.
Tel: (1)847-843-7900/Fax: (1)847-843-8568

OMRON ASIAPACIFIC PTE. LTD.
83 Clemenceau Avenue,
#11-01, UE Square,
Singapore 239920
Tel: (65)835-3011/Fax: (65)835-2711

Note: Specifications subject to change without notice.
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