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Find the *OMRON C200HW-PA204* at our website: *Click HERE*

**Note** Use either the C200HW-COM01 or a V1 Communications Board for the ZE-version C200HX/HG/HE CPU Units.

**Indicators (LEDs)**

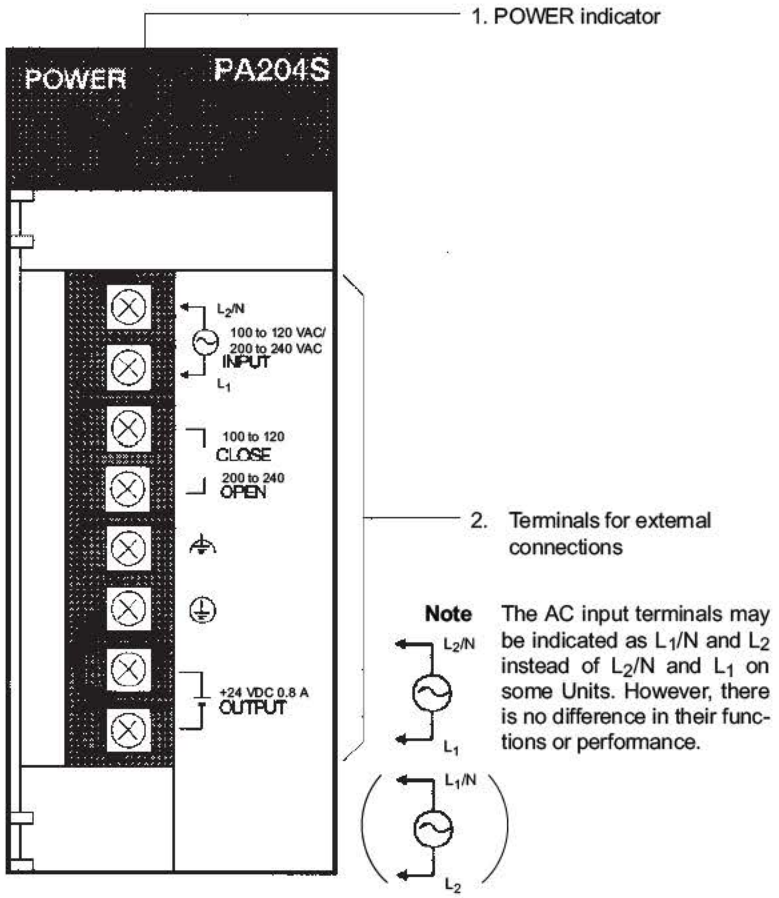
The Communications Board indicators on the front panel of the CPU Unit indicate the status of the Board, as described in the following table.

| Indicator | Color | Status | Meaning |
|---|---|---|---|
| RDY | Green | Not lit | The Board cannot be used due to a hardware error on the Board. |
| | | Flashing | A setting error has been discovered in the PC Setup or the protocol data. |
| | | Lit | The Board is operating properly and communications are possible. |
| COMB | Orange | Flashing | Communications are in progress with the device connected to port B. |
| COMA | Orange | Flashing | Communications are in progress with the device connected to port A. |

## 2-2-4 Power Supply Units

Power Supply Units provide power to the CPU Rack and the Expansion I/O Racks. Power Supply Units are available for either AC or DC power input. The numbers in the diagram correspond to the numbers of the following items in the description. (The following diagram shows the C200HW-PA204S.)

**Part Names and Functions**




***1, 2, 3...*** 1. **POWER Indicator**
The POWER indicator will be lit whenever the Power Supply Unit is outputting 5 V.



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2. **Terminals for External Connections**
   These terminals are connected as shown in the diagram below. The numbers in the diagram correspond to the numbers of the following items in the description.

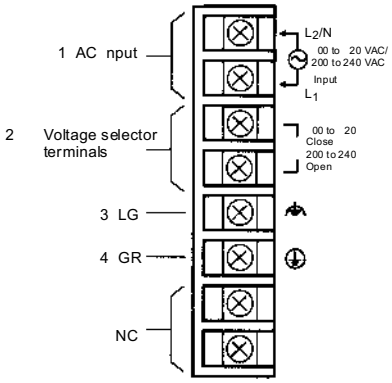
| Supply voltage | Output capacity | Output terminals | RUN output | Model |
|---|---|---|---|---|
| 100 to 120 VAC or 200 to 240 VAC (Se ect the vo tage us ng the meta short bar ᴗ the vo tage se ector term na s.) | 5 VDC, 4.6 A, 30 W | W thout | W thout | C200HW-PA204 |
| | | 24 VDC, 0.8 A | W thout | C200HW-PA204S |
| | | W thout | W th | C200HW-PA204R |
| | 5 VDC, 9 A, 45 W | W thout | W th | C200HW-PA209R |
| 24 VDC | 5 VDC, 4.6 A, 30 W | W thout | W thout | C200HW-PD024 |



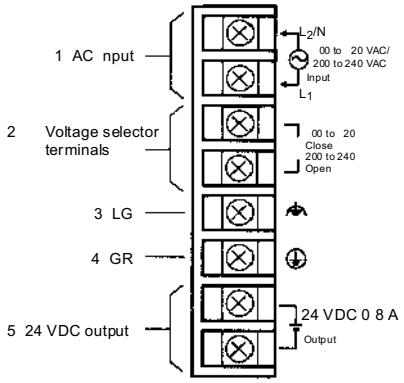
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## Terminal Connections

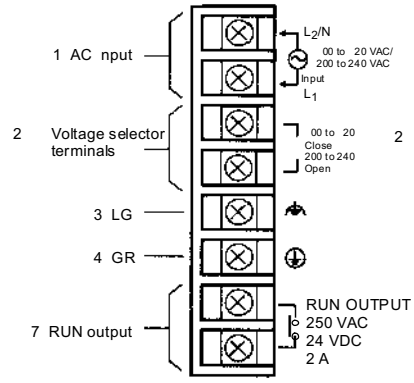
**C200HW-PA204: AC Input**



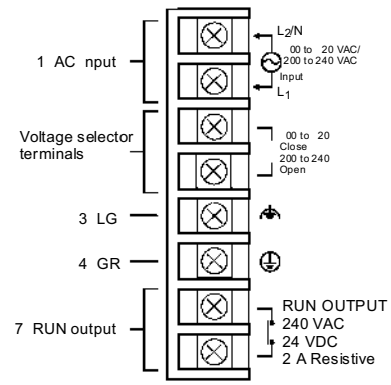

**C200HW-PA204S: AC Input**



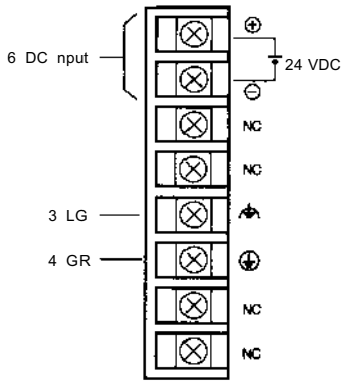

**C200HW-PA204R: AC Input**




**C200HW-PA209R: DC Input**




**C200HW-PD024: DC Input**




***1, 2, 3...***

1. **AC Input (C200HW-PA20 Only)**
   Supply either 100 to 120 VAC or 200 to 240 VAC to the AC input terminals. If one power supply phase of the equipment is grounded, connect the grounded phase side to the $L_2$/N (or $L_1$/N if so indicated) terminal.
2. **Voltage Selector Terminals (C200HW-PA20 Only)**
   Short these terminals with a metal short bar when 100 to 120 VAC is being supplied to the AC input terminals.
3. **LG**
   Ground the LG terminal to 100 or less to increase resistance to noise and protect against possible electrical shock.



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4. **GR**
   Ground the GR terminal to 100 or less to protect against possible electrical shock.
5. **24 VDC Output (C200HW-PA204S Only)**
   The 24 VDC output terminals can be used to supply power to DC Input Units. The combined power consumption for both 5 V and 24 V must be 30 W or less.
6. **DC Input (C200HW-PD024 Only)**
   Supply 24 VDC to the DC input terminals.
7. **RUN Output (C200HW-PA204R/PA209R Only)**
   The internal contact will turn ON when the CPU Unit is operating in RUN or MONITOR mode. These terminals are available only on the C200HW-PA204R.



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### Restrictions for the C200HW-PA204R/PA209R

Use the C200HW-PA204R/PA209R Power Supply Unit only with the following CPU Units and Backplanes. CPU Units and Backplanes with manufacturing numbers earlier than the ones given cannot be used.

**CPU Units**

| Model | Manufacturing number (See below.) | |
|---|---|---|
| | Made in Japan | Made in the Netherlands |
| C200HX-CPU65-E | 20Z6 or ater | 0147 or ater |
| C200HX-CPU54-E | 2817 or ater | |
| C200HX-CPU44-E | 19Z6 or ater | |
| C200HX-CPU34-E | 2417 or ater | |
| C200HG-CPU63-E | 25Z6 or ater | |
| C200HG-CPU53-E | 0817 or ater | |
| C200HG-CPU43-E | 19Z6 or ater | |
| C200HG-CPU33-E | 1017or ater | |
| C200HE-CPU42-E | 20Z6 or ater | |
| C200HE-CPU32-E | 19Z6 or ater | |
| C200HE-CPU11-E | 20Z6 or ater | |
| C200HX/HG/HE-<br>CPU -ZE | A mode s | |

**Backplanes (with C200HW-PA204R)**

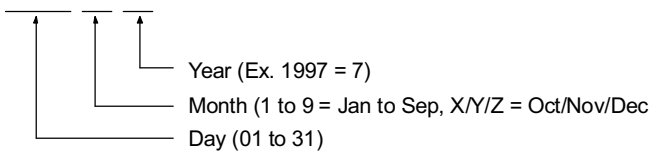
| Model | Manufacturing number (See below.) | |
|---|---|---|
| | Made in Japan | Made in the Netherlands |
| C200HW-BC031 | 0617 or ater | 0147 or ater |
| C200HW-BC051 | 19Z6 or ater | |
| C200HW-BC081 | 24Z6 or ater | |
| C200HW-BC101 | 20Z6 or ater | |

**Backplanes (with C200HW-PA209R)**

| CPU Backplanes | | I/O Backplanes | |
|---|---|---|---|
| C200HW-BC031 | Same manufactur ng number as for C200HW-PA204R. | C200HW-BI031 | Same manufactur ng number as for C200HW-PA204R. |
| C200HW-BC051 | | C200HW-BI051 | |
| C200HW-BC081-V1 (-V1 or ater) | | C200HW-BI081-V1 (-V1 or ater) | |
| C200HW-BC101-V1 (-V1 or ater) | | C200HW-BI101-V1 (-V1 or ater) | |

**⚠ Caution** When using the C200HW-PA209R Power Supply Unit, be sure to use only the Backplanes listed in the above table. Using a different Backplane may result in malfunction due to deterioration of the base or pattern burnout.

**Note** Manufacturing numbers are as shown in the following diagram.





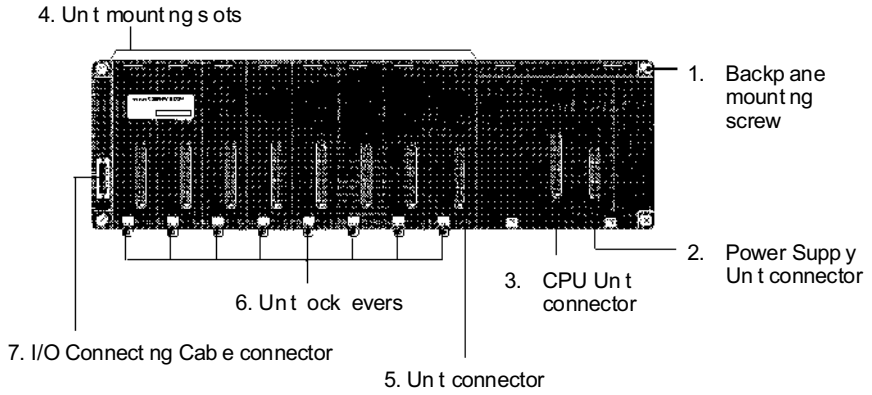

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## 2-2-5 Backplanes

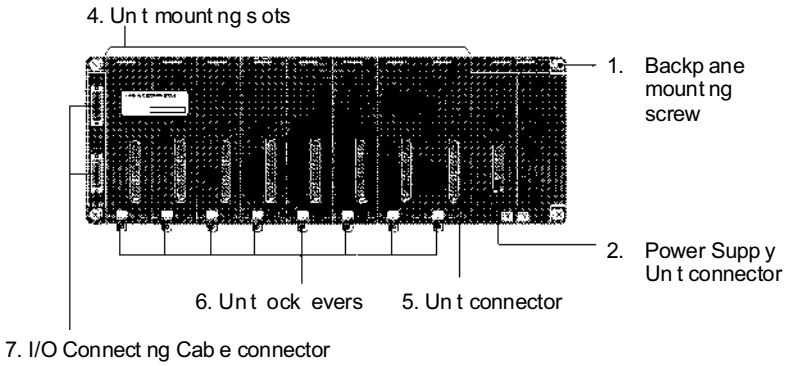
There are two types of Backplane: the CPU Backplane, used for the CPU Rack, and the I/O Backplane, used for Expansion I/O Racks. The Backplane serves to hold and connect the following types of Unit: the CPU Unit, the Power Supply Unit, I/O Units, Special I/O Units, etc.

The components of the Backplanes are shown in the following diagrams and described following them. The numbers in the diagram correspond to the numbers of the following items in the description.

**CPU Backplane**




**I/O Backplane**




***1, 2, 3...***

1. **Backplane Mounting Screws**
   Mount the Backplane firmly using four M4 screws.
2. **Power Supply Unit Connector**
   Connect the Power Supply Unit.
3. **CPU Unit Connector**
   Connect the CPU Unit.
4. **Unit Mounting Slots**
   Mount one Unit to each slot. There are 3, 5, 8, or 10 slots available on the Backplane depending on the model of Backplane used.
5. **Unit Connectors**
   Connect I/O Units, Special I/O Units, Interrupt Input Units, and/or Analog Timer Units.

**Note** Attach a C500-COV01 Connector Cover to any slot that is not being used to prevent dust and dirt from entering the unused connectors.

6. **Unit Lock Levers**
   The lock levers hold the Units in place. Press down on the level and pull up on the Unit to release the lock.
7. **I/O Connecting Cable Connector**
   Connect the I/O Cable from the CPU Rack to the first Expansion I/O Rack or between adjacent Expansion I/O Racks to this connector.



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