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**Ge Series Six 6**  
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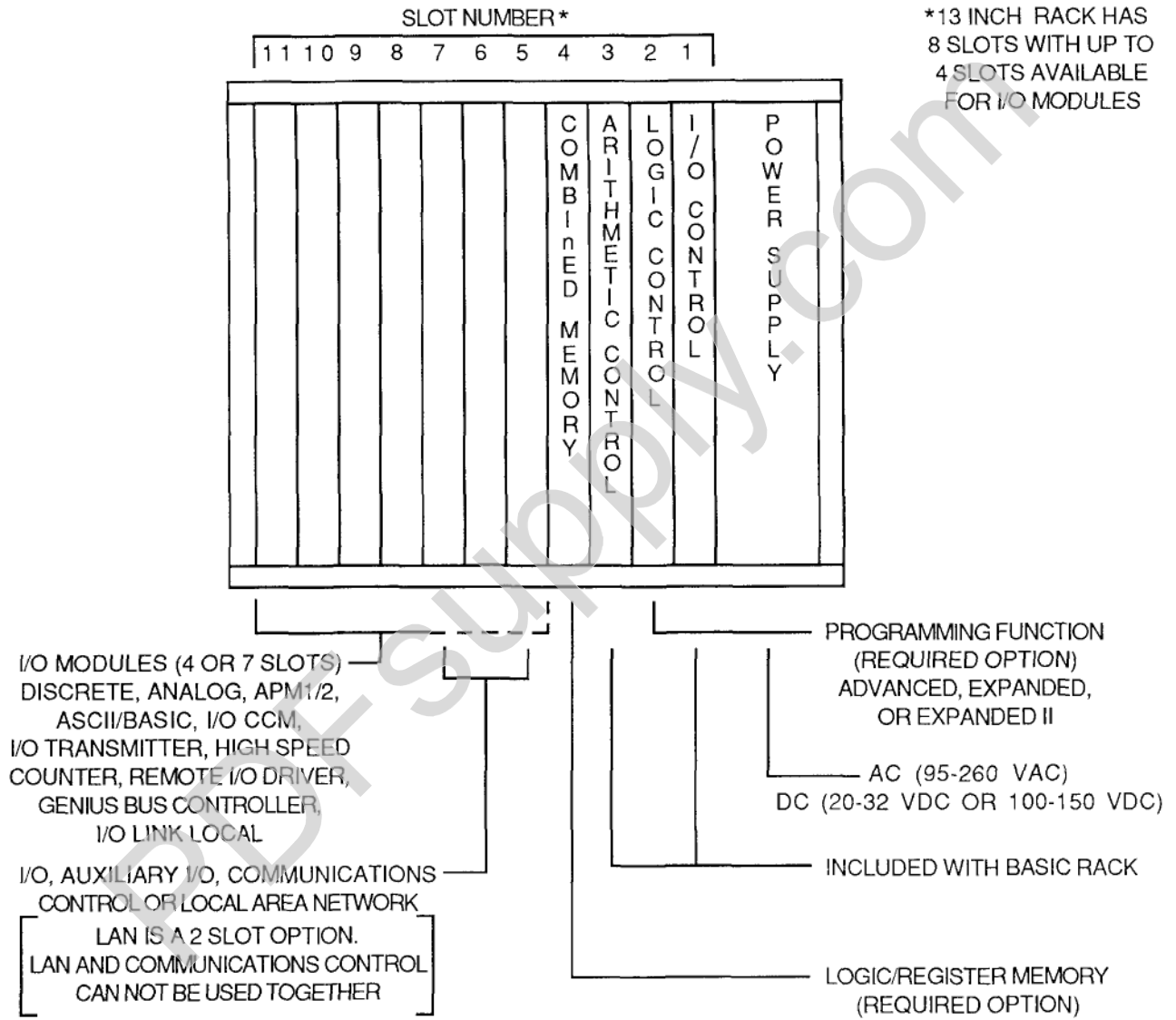


Figure 1. CPU RACK CONFIGURATION

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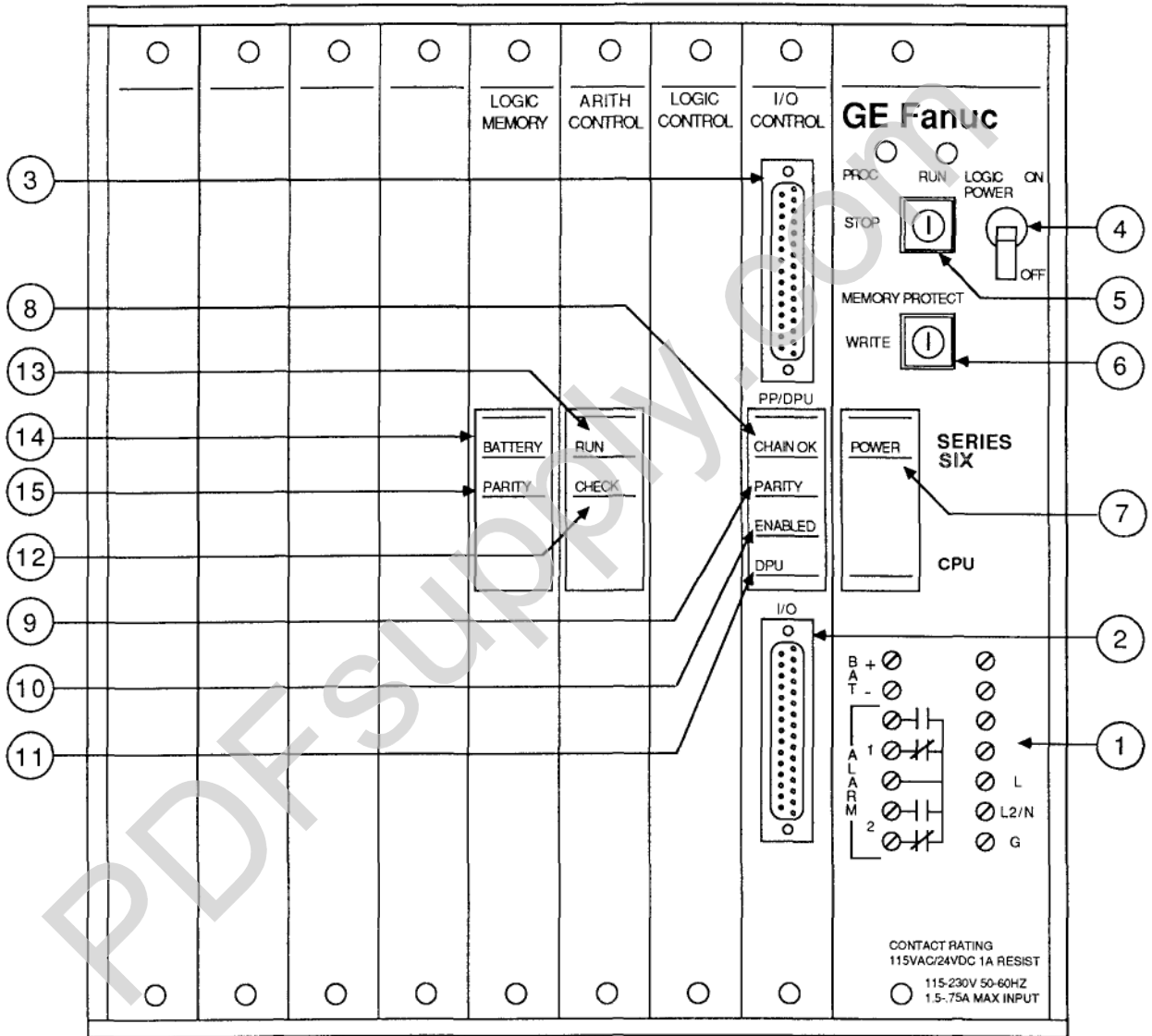


Figure 2. SERIES SIX PLUS CPU RACK USER ITEMS

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1. Power-Supply Front-Panel Connector Block.
2. D-Type 36-Pin Connector to I/O Chain.  
Connects to I/O Receiver or Advanced I/O Receiver module in nearest I/O rack in chain.
3. D-Type 36-Pin Connector to Workmaster computer.
4. Power Switch
5. CPU RUN/STOP Key Switch  
STOP: CPU is unconditionally in the STOP mode.  
RUN: CPU is in the RUN mode, unless this condition has been altered by commands from the Workmaster computer, or by the state of various control signals. When this switch is turned from STOP to RUN, the system starts when the outputs are enabled.
6. MEMORY PROTECT Key Switch  
PROTECT: The contents of the Logic Memory and the Override Table are protected from being changed.  
WRITE: The user program in the Logic Memory can be changed, and an override condition can be added to or removed from inputs or outputs through the Override Table.
7. POWER Light  
On: The voltage levels of all three DC outputs (+12V, -12V, +5V) are within tolerance.  
Off: At least one of these voltage levels is out of tolerance.
8. CHAIN OK Light  
On: Continuity, power, and output data parity are OK at all I/O stations in the chain.  
Off: A continuity, or power problem, or output data parity error exists at one of more I/O stations(s).
9. PARITY Light  
On: Input data parity is OK at the I/O Control module.  
Off: Input data parity error exists.
10. ENABLED Light  
On: Outputs are enabled. CPU is operating in the RUN ENABLED mode.  
Off: Outputs are disabled. CPU is in the RUN DISABLED or the STOP mode.
11. DPU Light  
On: Data Processor is OK.  
Off: A continuity error or other type of problem exists with the DPU. Also off if no DPU is connected.
12. CHECK Light  
On: CPU execution sequence is proceeding and the self-test has passed at least once each 300ms (+/- 50 ms). CPU can be in RUN or STOP mode.  
Off: CPU self-test has not been passed within 300 ms (+/- 50 ms). CPU goes to STOP mode: I/O chain is reset.
13. RUN Light  
On: CPU execution sequence is proceeding and the self-test has passed at least once each 300ms (+/- 50 ms). CPU is in RUN mode.  
Off: CPU is in STOP mode.
14. BATTERY Light  
Steady On: Battery Normal  
Flashing: Battery Low - CPU continues running. No. 2 alarm is activated. To protect the memory contents, the battery should be replaced before it fails.  
Steady Off: Battery Failed - CPU continues running, but will not restart if stopped. No. 2 alarm remains activated. Memory contents will be lost when power is switched off or lost.
15. PARITY Light  
On: Table, Register and Logic memory parity is OK.  
Off: Parity error exists in either Table, Register or Logic memory. An error message identifying location of the error will appear in the scratchpad display area on the Workmaster computer screen.

## Installation

This section provides a summary of the procedures described in Chapter 3 of the Series Six Plus User's Manual (GEK-96602). Do not attempt to install the Series Six Plus PLC without consulting that manual.

1. The Series Six Plus PLC can be rack, panel or wall mounted, depending on the position of the mounting brackets. **IMPORTANT:** Proper safety ground and signal ground connections must be made as described in the Series Six Plus User's Manual.
2. Connect the Lithium-Manganese Dioxide battery to either of the male jacks beneath the battery on the Logic Memory module.
3. Install the Logic Control module in slot 2, which is to the left of the I/O Control module. Use the extraction/insertion tool supplied with the basic CPU unit to insert (or remove) this module (or any other module) into the Series Six Plus rack.
4. Install the Logic Memory module in slot 4, which is to the immediate left of the Arithmetic Control module. Use the extraction/insertion tool supplied with the CPU to insert this module into the Series Six Plus rack.
5. Set the jumpers on the I/O Control module according to system requirements.
6. Make the following connections to the terminal block on the Series Six Plus PLC power supply:
  - 3-wire (grounding) AC power cord for AC power supply
  - DC source connections to POS and NEG terminal for DC power supply.
  - Alarm relay contacts (optional)
  - Auxiliary battery (optional)
  - Install the protective cover plate after making these connections.
  - Connect the cable from the primary I/O chain to the lower faceplate connector on the I/O Control module. Connect the cable from the Workmaster computer or Program Development Terminal to the upper connector (Workmaster required with Expanded functions). If neither the Workmaster computer nor the PDT is to be connected, the upper connector can be left empty.

### NOTE

After a power fault, the system comes back in the mode (STOP, RUN ENABLED, or RUN DISABLED) in which it was operating before power was lost.

Both the RUN and the CHECK indicator can flash momentarily when power is turned on in the CPU. A valid RUN or CHECK state, however, is indicated by a steady glow of the LED.

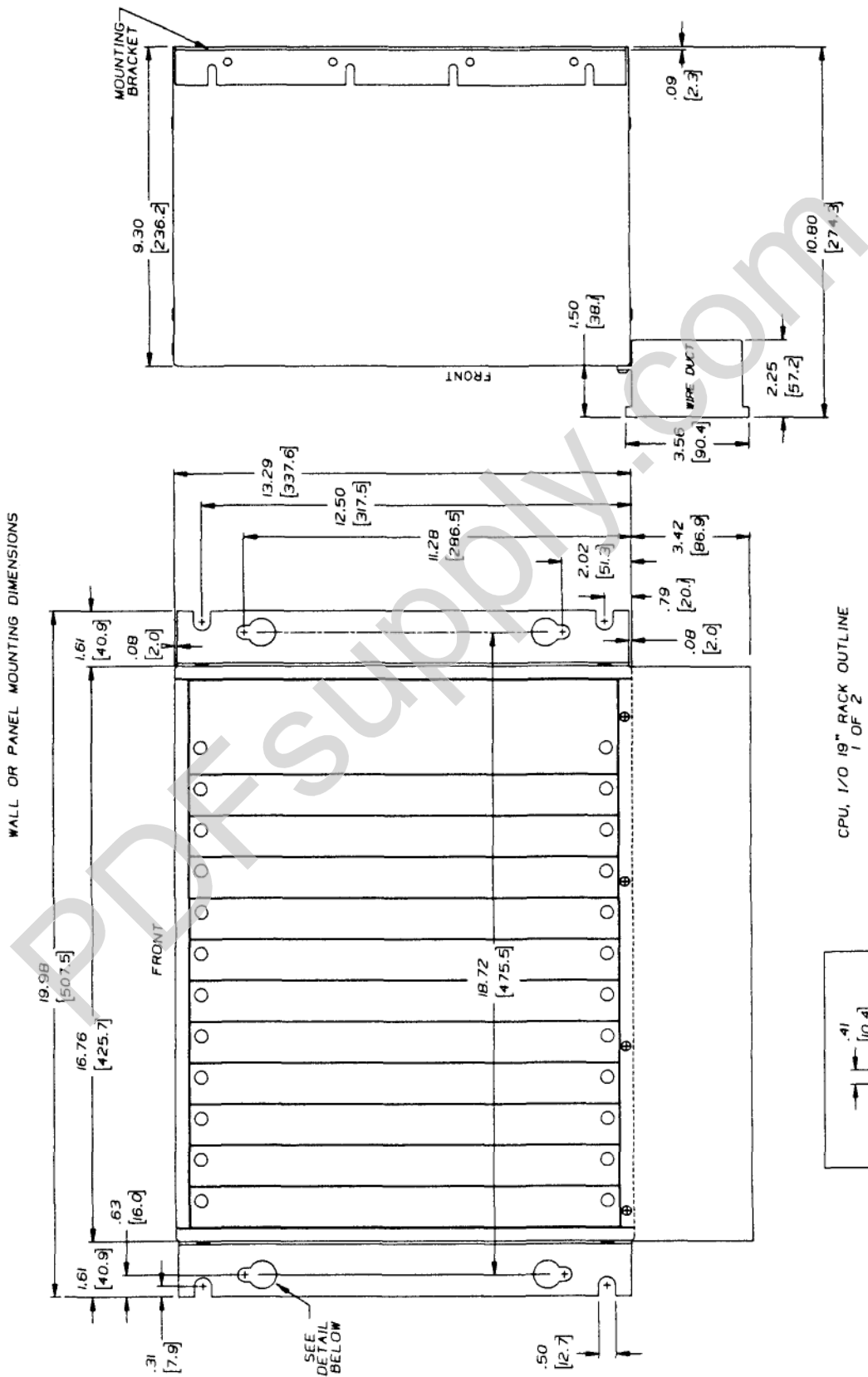
See outline drawings of racks on pages 7-10.



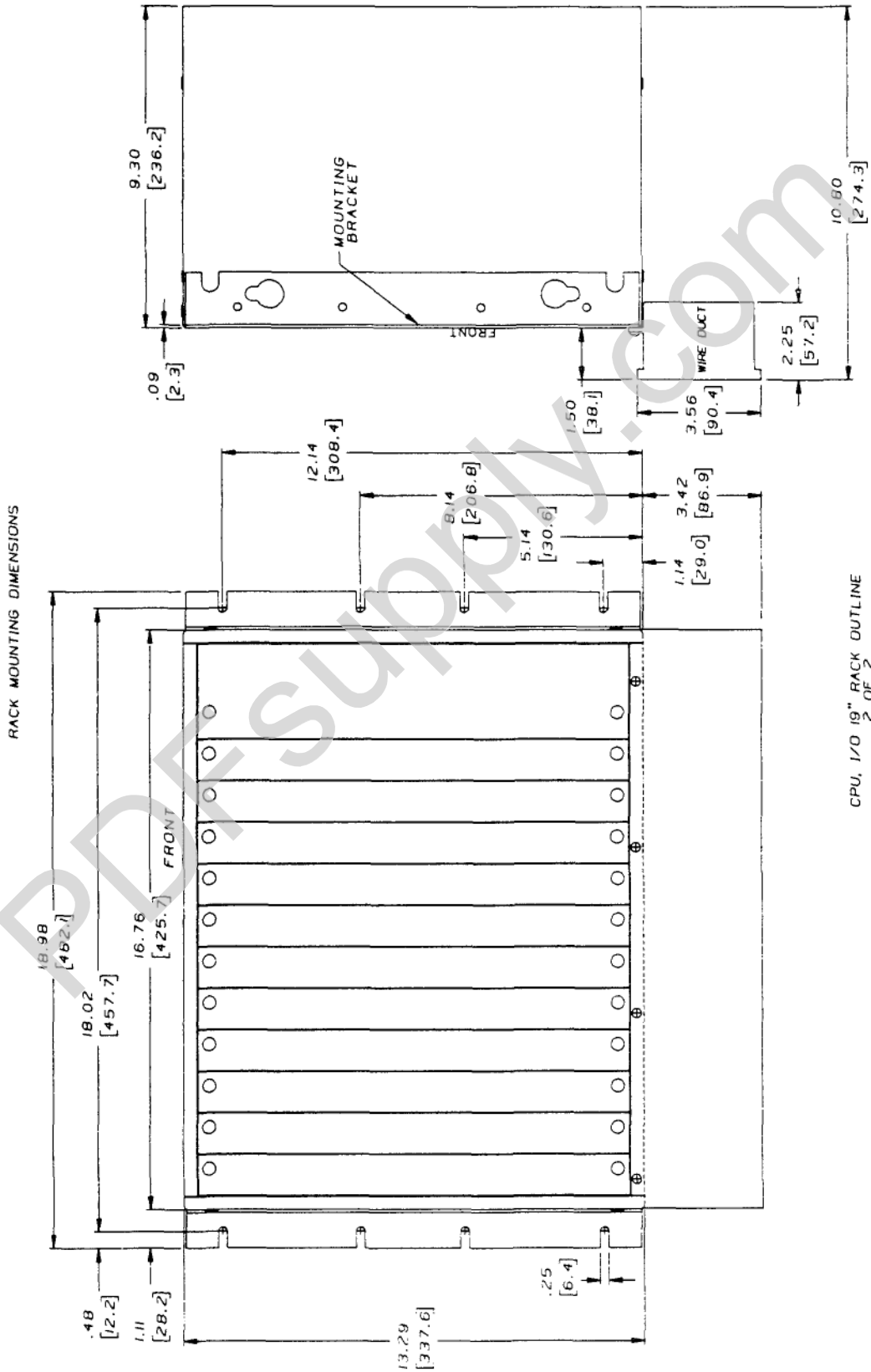


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CPU, 1/0 19" RACK OUTLINE  
2 OF 2

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**Table 2. SPECIFICATIONS**

<b>Dimensions (19", 11 slots):</b>	
<b>Rack-Mount</b>	19.0(W) x 13.4(H) x 9.3(D) inches (483 x 340 x 236 millimeters)
<b>Panel Mount</b>	20.0(W) x 13.4(H) x 9.3(D) inches (508 x 340 x 236 millimeters)
<b>Dimensions (13", 8 slots):</b>	
<b>Rack-Mount</b>	16.0(W) x 13.4(H) x 9.3(D) inches (406 x 340 x 236 millimeters)
<b>Panel Mount (Brackets on sides)</b>	16.0(W) x 13.4(H) x 9.3(D) inches (406 x 340 x 236 millimeters)
<b>Panel Mount (Brackets on Top and Bottom, Side by Side Mount)</b>	13.25(W) x 16.15(H) x 9.3(D) inches (340 x 410 x 236 millimeters)
<b>Weight (filled), 11 slot</b>	37 pounds (17 kg)
<b>Storage Temperature</b>	-20 to +70C (-4 to +158F)
<b>Operating Temperature</b>	0 to +60C (+32 to +140F) outside of rack
<b>Humidity</b>	5% to 95% (non-condensing)
<b>Power Requirements</b>	Three power supplies are available: <ul style="list-style-type: none"> <li>1. 95-260 V ac 47-63 Hz 250VA Max.</li> <li>2. 20-32 V dc 180 watts Max.</li> <li>3. 100-150 V dc 200 watts Max.</li> </ul>
<b>Allowable Power Interruptions</b>	33 ms minimum at 115 V ac line 10 ms minimum at 20 V dc 4 ms minimum at 100 V dc
<b>Noise Immunity</b>	Meets requirements of NEMA ICS 2-230 and ANSI C 37.90A
<b>Memory Configuration (16.bit words)</b>	5K total: 4K Logic Memory and 1K register Memory 12K total: 4K Logic Memory and 8K Register Memory 16K total: 8K Logic Memory and 8K Register Memory 24K total: 16K Logic Memory and 8K Register Memory 48K total: 32K Logic Memory and 16K Register Memory 80K total: 64K Logic Memory and 16K Register Memory
<b>Input Capacity maximum</b>	16000 points when in Expanded I/O mode
<b>Output Capacity maximum</b>	16000 points when in Expanded I/O mode

Basic unit includes rack, power supply, I/O Control module, Arithmetic Control module, ribbon cable (connects Arithmetic Control to Logic Control), module extraction/insertion tool, mounting brackets, I/O termination plug, and field wiring trough.

Table 3. ORDERING INSTRUCTIONS

DESCRIPTION				CATALOG NUMBER
<u>Series Six Plus CPU</u>				
with 95 to 260 V ac Power Supply, 11 slot				IC600CP630
with 24 V dc Power Supply, 11 slot				IC600CP634
with 125 V <b>dc</b> Power Supply, 11 slot				IC600CP635
with 95 to 260 V ac Power Supply, 8 slot				IC600CP610
with 24 V dc Power Supply, 8 slot				IC600CP612
with 125 V dc Power Supply, 8 slot				IC600CP615
<u>Logic Control Module (select one)</u>				
Advanced Functions				IC600CB525
Expanded Functions				IC600CB526
Expanded II Functions				IC600CB5 15
<u>Memory Options</u>				
	Total User Memory	Logic Memory	Register	
<u>Memory</u>				
	5 K	4 K	1K	IC600LX605
	12K	4 K	8K	IC600LX612
	16 K	8K	8 K	IC600LX616
	24K	16K	8 K	IC600LX624
	48K	32K	16 K	IC600LX648
	80K	64K	16K	IC600LX680
<u>Renewal Part</u>				
Series Six Plus CPU	8-slot rack without power supply			IC600CR610
Series Six Plus CPU	11-slot rack without power supply			IC600CR620



This symbol on the nameplate means the product is listed by Underwriters Laboratories Inc. (UL Standard No. 508, Industrial Control Equipment, subsection Electronic Power Conversion Equipment.)

For further information, contact your local GE Fanuc North America Distributor or sales office.