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Ge Series Six 6
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In Stock! Standard I/O Rack Power Supply, 115-230Vac IC600P
IC600PM

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 GEK-835 11B

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| <ol style="list-style-type: none"> 1. DC-Output Terminals (on large circuit board) 2. Power-Fail-Signal Terminal (on small circuit board) 3. Ground Terminal 4. Front-Panel Terminal Block 5. Power Switch/Circuit Breaker 6. POWER Light <ul style="list-style-type: none"> On: The voltage level of the +5V DC output is within tolerance. Off: This voltage level is too low. | <ol style="list-style-type: none"> 1. Main-Circuit-Board Terminal Strip 2. Ground Terminal 3. Auxiliary-Circuit-Board Connector 4. Front-Panel Connector Block 5. Power Switch/Circuit Breaker 6. POWER Light <ul style="list-style-type: none"> On: The voltage levels of all three DC outputs (+12V, -12V, +5V) are within tolerance. Off: At least one of these voltage levels is too low. |
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Standard I/O Power Supply

High-Capacity I/O Power Supply

Figure 1. User Items (Part 2 of 2)

Installation

Verify that the I/O Power Supply to be installed can accommodate the estimated load. Total the current units as indicated in Table 2, per the I/O modules to be utilized.

If installing a Standard Power Supply, the input voltage mode must be established by jumper on the front panel terminal block. Figure 2 indicates the two input modes selectable, 115V AC or 230V AC, and the corresponding positions of the jumper strap. The High Capacity power supply input mode cannot be altered from that established at the GE factory.

These steps define the procedures to be followed when a power supply is to be replaced on a Series Six I/O Rack. The tools needed are a regular screwdriver, Phillips screwdriver, and a 5/16" wrench or nut driver.

1. Stop the system by switching the top key on the CPU to "STOP".
2. Switch off all units in the system, including the user's power supplies.
3. Remove all power from the system, preferably at the source (i.e. throw the *main* circuit breaker for the system).
4. Locate the I/O rack power supply to be changed. The power supply is in the far right side of the I/O rack.
5. Remove the plastic cover on the lower portion of the power supply and, using a volt-meter, make sure there is no AC power present.
6. Take note of the location and color of the AC wires and then remove them.

7. At the top and bottom of the power supply, there are 1/4-turn thumbscrews. To loosen, turn the thumbscrews approximately 1/4 turn counterclockwise.
8. Grasp the thumbscrews and gently pull outward. Be careful while removing the power supply of the wires inside; pull the power supply completely out.
9. Locate the wires that extend from the back of the I/O rack to the terminal on the power supply. These wires should be labeled or stamped with their location; the circuit boards have wire locations stamped on them also, (Refer to Table 3.) Remove these wires. There is also a plastic wire clamp holding these wires in place. Detach this from the frame if there is not a similar item on the replacement power supply, or cut the clamp if there is one on the new supply.

On the High Capacity rack, remove the 18-pin (PI) molex connector that is on the narrow board in the front part of the power supply. The power supply should now be completely detached from the I/O rack.

10. Take the replacement power supply and attach the wires as shown in Table 3. On the High Capacity rack be sure to connect the 18-pin molex connector (PI) to the power supply. Attach the wire clamp on the upper stud of the power supply frame, or if there is a clamp already there, wrap the wires in it.
11. Slide the power supply into the rack, being careful of the wires. When the power supply is all the way in, turn the thumbscrews clockwise 1/4 turn, or until they lock in.

12. Remove the plastic cover on the lower portion of the power supply and attach the AC wires as they were on the original supply (Refer to Step 6). Replace the plastic cover.
13. Restore system power. Turn on the I/O Rack. Check to see if the "Power" light is on. If it is, turn on the rest of the system and resume normal operation.
14. If it does not come on, the power supply is bad or there are other problems within the I/O Rack. When this occurs, you can call the Programmable Control Service Center EMERGENCY SERVICE NUMBER (804) 978-5747 for assistance.
15. Repack the power supply removed from the I/O Rack and return to Industrial Control Department, General Electric Company for proper credit.

Table 2. Summary of Units of Load for I/O Modules

Catalog Number	Module Description	Units of Load (1)		
		+5 V	+12 V	-12 V
IC600BF800	I/O Receiver	9	-	-
IC600BF801	Remote I/O Receiver	42	10	10(2)
IC600BF802	24 to 48 V dc Input	2	-	-
IC600BF804	115 V ac/dc Input	2	-	-
IC600BF805	230 V ac/dc Input	2	-	-
IC600BF806	12 V ac/dc Input	2	-	-
IC600BF808	Interrupt Input	3	-	-
IC600BF810	115 V ac/dc Isolated Input	2	-	-
IC600BF813	Type J Thermocouple Input	29	-	-
IC600BF814	Type K+ Thermocouple Input	29	-	-
IC600BF815	Type S Thermocouple Input	29	-	-
IC600BF816	Type T Thermocouple Input	29	-	-
IC600BF817	Type B Thermocouple Input	29	-	-
IC600BF818	Type E Thermocouple Input	29	-	-
IC600BF819	Type R Thermocouple Input	29	-	-
IC600BF827	High Speed Counter	19	-	-
IC600BF830	Advanced I/O Receiver	12	-	-
IC600BF831	High Density Input	4	-	-
IC600BF841	0 to 10 V dc Analog Input	29	-	-
IC600BF842	10 V dc Analog Input	29	-	-
IC600BF843	4 to 20 mA Analog Input	29	-	-
IC600BF900	I/O Transmitter	34	-	-
IC600BF901	Remote I/O Driver	38	10	10(2)
IC600BF902	24 V dc Sink Output	7	-	-
IC600BF903	48 V dc Sink Output	7	-	-
IC600BF904	115 V ac Output	9	-	-
IC600BF905	230 V ac Output	9	-	-
IC600BF906	12 V dc Sink Output	7	-	-
IC600BF907	12 V dc Source Output	7	-	-
IC600BF908	24 V dc Source Output	7	-	-
IC600BF909	48 V dc Source Output	7	-	-
IC600BF910	115 V ac Isolated Output	8	-	-
IC600BF912	230 V ac Isolated Output	8	-	-
IC600BF914	Reed relay output	13	-	-

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Table 2. Summary of Units of Load for I/O Modules - Continued

Catalog Number	Module Description	Units of Load (1)		
		+5 V	+12 V	-12 V
IC600BF915	Axis Positioning Module, Type 1	23	7	3
IC600BF917	Axis Positioning Module, Type 2	21	11	6
IC600BF921	5 V TTL Output	3	-	-
IC600BF923	10 to 50 V dc Sink Output	3	-	-
IC600BF924	120 V dc Output	5	-	-
IC600BF929	10 to 50 V dc Source output	3	-	-
IC600BF930	115 V ac Protected Output	8	-	-
IC600BF941	0 to 10 V dc Analog Output	29	-	-
IC600BF942	10 V dc Analog Output	29	-	-
IC600BF943	4 to 20 mA Analog Output	29	-	-
IC600BF944	ASCII/BASIC Module (12K)	20	12	-
IC600BF949	ASCII/BASIC Module (28K)	20	12	-
IC600BF946	Loop Management Module	20	12	-
IC600BF947	I/O Link Local	20	12	-
IC600BF948	I/O CCM	20	12	-
IC600BF950	I/O CCM4	20	12	-
IC660CBB900	Genius Bus Controller	20	2	-
IC660CB902	Genius Bus Controller w/Diag.	20	2	-
IC660CBB901	Genius Bus Controller	20	2	-
IC660CB903	Genius Bus Controll wo/Diag.	20	2	-

(1) For +5 V dc, 1 unit of load equals 60 mA (300 mw of power). For +12 and -12 V dc, 1 unit of load equals 25 mA (300 mw of power).

(2) +12 V and -12 V current is less than 1 unit of load if RS-232 mode is not used.

Ref. 70.6

Select Jumper (I) For
115 or 230V AC Operation

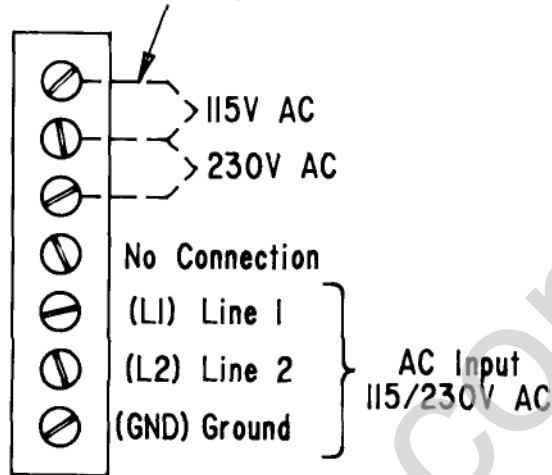


Figure 2. Standard I/O Power Supply Front-Panel Terminal Block

Table 3. Power Supply To I/O Rack Wiring

Standard Power Supply To I/O Rack Wiring

Wire	Function	Location
Black wire (heavy insulation)	+5V	(+) Terminal-large board
White wire (heavy insulation)	0V	(-) Terminal-large board
Black wire (from within gray cable)	+5V	+5V Terminal-small board
White wire (from within gray cable)	PSOK	PSOK Terminal-small board
Bare wire (clear insulation)	GND	GND Terminal-small board
Green wire	GND	Stud on power supply frame

High-Capacity Power Supply To I/O Rack Wiring

Wire	Function	Terminal
Black wire "Plus 12V-6"	+12V DC	2
Black wire "-12V-5"	-12V DC	3
White wire "0V-8"	DC common	COM
Black wire "Plus 5V-9"	+5V DC	+5

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Table 4. Specifications

<ul style="list-style-type: none">• Dimensions:• Input:• Operating Temperature:• Storage Temperature:• Humidity:• Output:	<p>12.46 x 9.00 x 2.75 (inches) 317 x 229 x 70 (mm)</p> <p>95 - 130 Vac, 700 mA (max.) 190 - 260 Vac, 350 mA (max.) 47-63 Hz</p> <p>0° to 60°C</p> <p>-20° to +80°C</p> <p>5% - 95% (non-condensing)</p> <p>High-Capacity: + 5 Vdc, 16.5 A (max.) +12 Vdc, 1.5 A (max.) -12 Vdc, 1.0 A (max.) ** Total power is limited to 90 watts</p> <p>Standard: +5 Vdc, 6.1 A (max.)</p>
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Table 5. Ordering Information

	115V AC Input	230V AC Input
Standard Power Supply	IC600PM502A	IC6OOPM502A
High Capacity Power Supply	IC600PM503A	ICB00PMS03A

Catalog Number Revision Suffix

The equipment listed above having the catalog numbers shown and the same equipment having a higher alpha suffix is designed for listing by UL for use as auxiliary control devices. The equipment is a direct replacement for equipment having the same catalog number but a lower alpha suffix.

The UL 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 sales office.