MODEL 650

Loop Power Supply



- **Dual DC Voltage Outputs**
- **60 Hz Pulse Output**
- **5 Year Unconditional Warranty**

DESCRIPTION

The **Model 650 Loop Power Supply** provides DC power for instrumentation control modules.

Each option provides three output selections as shown in the table below. For example the Model 650-240-24 has output options of 24 VDC regulated, 32 VDC unregulated, and 60 Hz pulse at 46 peak volts.

All outputs for the Model 650 are floating, electrically isolated from ground. A power status indicator (LED) is located on the top of the unit. The POWER LED comes ON when power is applied.

Applications for this device include two-wire loop transducers (pressure, voltage, or current), alarm indicators, meters and timers.

SPECIFICATIONS

Model	650
Supply voltage	See table below
Operating frequency	60 Hz
Power consumption	6 watts maximum
Outputs	See table below
Maximum combined current	150*ma*
Operating temperature	-40° to +50° C
Humidity tolerance	0-97% w/o condensation
Enclosure material	ABS plastic
Weight	9.5 ounces
Mounting	8-pin socket (*order separately)

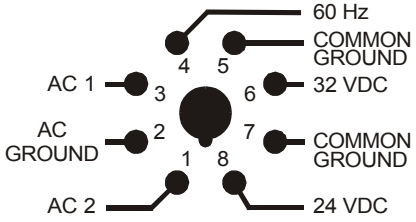
* Order 8-pin socket number **51X120**

MODEL 650 ORDERING OPTIONS

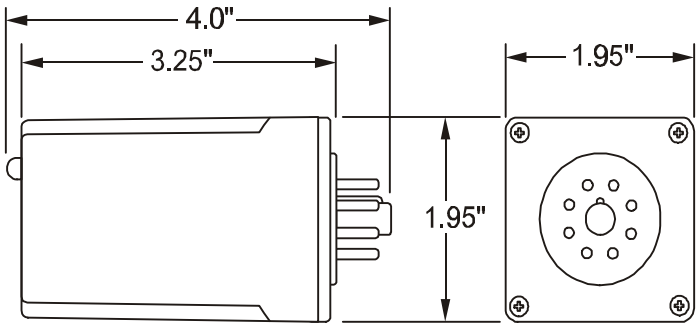
Model No. - Input Voltage - Output Regulated ***Example: 650-240-12***

Option Number	-120-5	-120-12	-120-24	-240-5	-240-12	-240-24
Input VAC	120	120	120	240	240	240
Output VDC Regulated	5	12	24	5	12	24
Output VDC Unregulated (Loaded)	16	16	32	16	16	32
60 Hz pulse (peak voltage)	23	23	46	23	23	46

PIN DRAWING (Bottom view of unit)



DIMENSIONS



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MODEL 650 Loop Power Supply

READ ALL INSTRUCTIONS BEFORE INSTALLING, OPERATING OR SERVICING THIS DEVICE.
KEEP THIS DATA SHEET FOR FUTURE REFERENCE.

GENERAL SAFETY

POTENTIALLY HAZARDOUS VOLTAGES ARE PRESENT AT THE TERMINALS OF THE MODEL 650. ALL ELECTRICAL POWER SHOULD BE REMOVED WHEN CONNECTING OR DISCONNECTING WIRING. THIS DEVICE SHOULD BE INSTALLED AND SERVICED BY QUALIFIED PERSONNEL.

Installation Instructions

WARNING

The Model 650 Loop Power Supply is not to be used with input voltages other than those for which the unit was designed; 120 VAC for the three "120" option units, or 240 VAC for the three different "240" option units.

INSTALLATION

Connect the 60 Hz input power to pins 1, 2 and 3 on the 8-pin socket, following the Model 650 base diagram pictured on the unit (and on this data sheet).

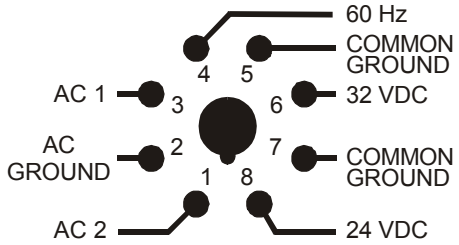
Depending on the desired DC voltage output, connect the DC load device to the appropriate socket output pins.

NOTE: *When installing the Model 650 Power Supply in areas of high humidity or contamination, it is recommended that the base area and all exposed metal parts of the socket be coated liberally with a good quality silicon grease, such as Dow Corning DC-4 or DC-4X. Insert the unit into the socket and wipe off excess grease around the base. This will pre-vent the entrance of moisture and other contaminates into the base and socket areas.*

TROUBLESHOOTING

Should the Model 650 Loop Power Supply fail to operate, check all connections. Verify that the proper input source voltage is present, and check all fuses. After you have verified the input voltage, note the following: *The power status indicator (LED), located on top of the unit will be OFF if the output is shorted or overloaded*. Should problems persist, disconnect the output lines, and measure the output voltages.

NOTE: This pin drawing represents the bottom view of the **Model 650 Loop Power Supply** module.



WARRANTY

The **Model 650 Loop Power Supply** is warranted to be free from defects in materials and workmanship, and is covered by our exclusive **5-year Unconditional Warranty**. If the Model 650 fails to operate, for any reason, we will repair or replace it free, for five years from the date of purchase. For a complete warranty statement, refer to the *Terms and Conditions* page in the front of your Time Mark catalog.

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