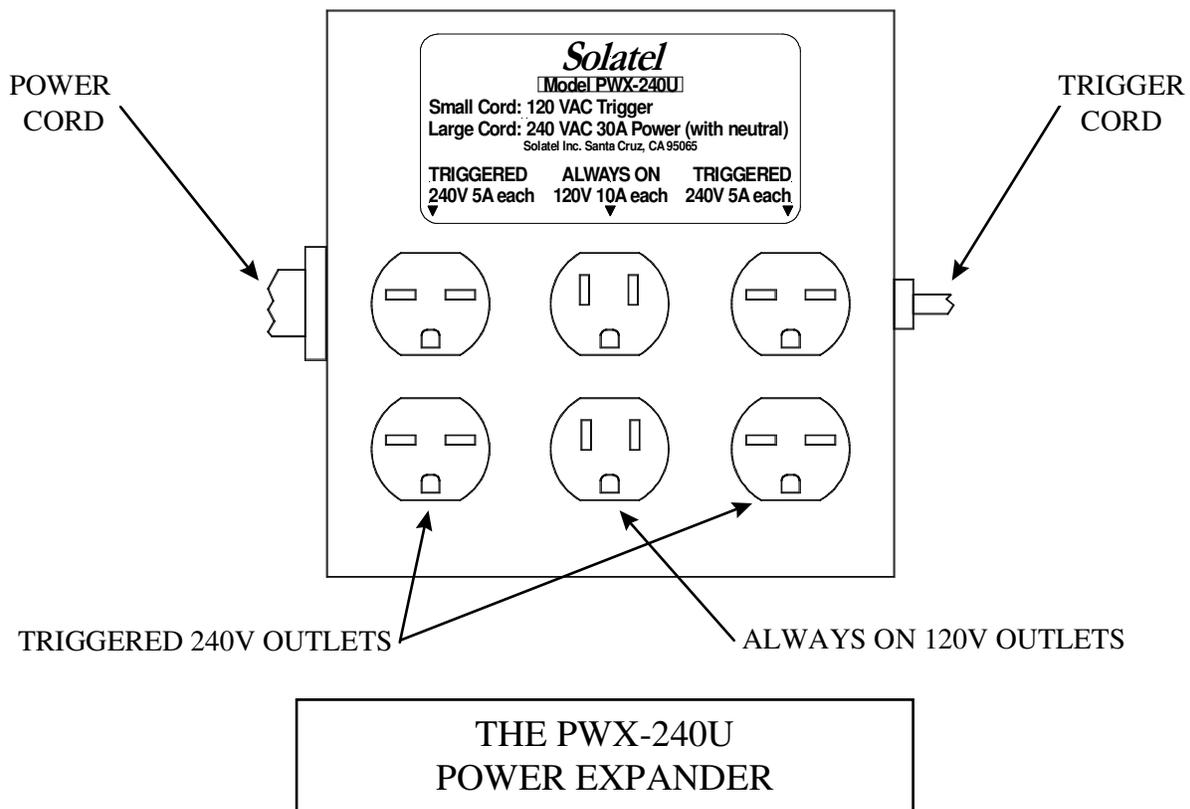


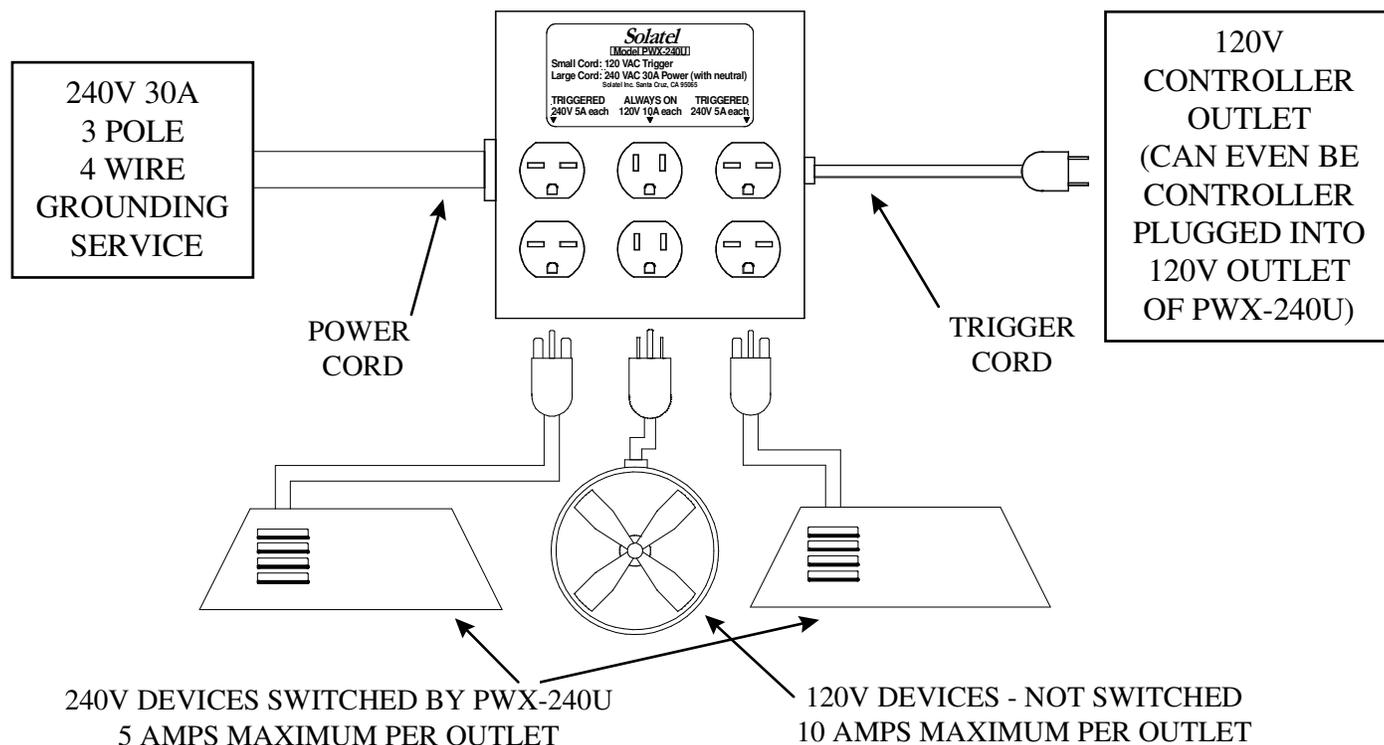
SOLATEL PWX-240U POWER EXPANDER



The Solatel PWX-240U Power Expander lets you control 240V devices from a 120V controller or timer. The PWX-240U also has two 120V 10 Amp unswitched outlets for devices that want power at all times. A typical plug-in controller, such as Solatel's Plant Pro, is limited by the 120V 15 Amp outlet that it plugs in to. Adding a PWX-240U provides switched outlets for up to four 240V 1000W lamps or any other devices that draw no more than 5 Amps per outlet. The unswitched 120V outlets can power devices such as: a circulation fan that is on 24/7, a timer controlling a pump, or even a timer or controller that triggers the 240V outlets on and off. If the circuit supplying power to the PWX-240U cannot provide 30 Amps or the building circuit breaker cannot handle the inrush current at turn-on, then this will reduce the number of devices that can be controlled. The PWX-240U can also be used with pumps, fans, or other devices. Multiple PWX-240U's can be used to control a large number of devices.

The PWX-240U has two cords and six outlets. The four 240V outlets are the type used for 240V equipment. This eliminates the risk of plugging a 120V device into a 240V outlet - a danger on products with 120V type outlets actually supplying 240V. The Power Cord provides current to all of the PWX-240U outlets. The Power Cord is connected to a 240V 4 wire service. It must have a neutral wire. The Trigger Cord plugs into a 120V controller or timer and provides the control signal which switches the 240V outlets on or off. The Trigger Cord draws very little current and can therefore be plugged in to a controller along with other 120V devices being switched. The 240V outlets are on only when there is 240V on the Power Cord and 120V on the Trigger Cord. If only one cord has voltage, then all 240V outlets are off. The 120V outlets are on if there is 240V on the Power Cord, whether the Trigger Cord has 120V or not. The Trigger Cord can be lengthened by using any standard 120V extension cord.

PWX-240U INSTALLATION



Caution: Unless you know how to do 240V electrical wiring, please get help from someone who does!

- Plug the Trigger Cord into the outlet of a 120V controller or timer. This device can be powered by a separate 120V outlet or one of the 120V outlets on the PWX-240U. Trigger requirements are 120VAC at 0.03A nominal, minimum is 102V, maximum is 132V.
- Plug 240V devices to be switched into the 240V outlets of the PWX-240U. Each 240V outlet can provide 5A maximum. Use devices with the correct plug, NEMA 6-15P.
- Plug 120V devices that are not switched into the 120V outlets. Each 120V outlet is 10A maximum.
- **THE PWX-240U REQUIRES A 3 POLE 4 WIRE GROUNDING SERVICE. NEUTRAL IS REQUIRED.** It requires 240V at 30A to provide the outlet currents specified above.
- The Power Cord colors are BLACK - first 240V line (X), WHITE - neutral (W), RED - second 240V line (Y), GREEN - ground (G). **NEUTRAL IS REQUIRED. NOT CONNECTING NEUTRAL WILL CAUSE 120V DEVICES TO FAIL TO OPERATE OR BE DAMAGED.**
- If you have a suitable 240V outlet or can add one, add the appropriate plug to the Power Cord. Popular 4 pin plug / outlet pairs are: electric clothes dryer, 30A, 14-30P plug / 14-30R outlet, and electric stove, 50A, 14-50P plug / 14-50R outlet. Rewire older 3 wire outlets with new 4 wire type.
- If you want to hardwire the Power Cord, use a strain relief suitable for a cord, not just one for conduit. Make sure that the service has an appropriate 30A 2 pole breaker.
- To control multiple PWX-240U's or other 120V devices, use a power strip on the controller's outlet. The 120V Trigger cannot be plugged into the 240V switched outlet of another PWX-240U.