POWER INLET BOX
CAT. NO. PB50
50 Amps., 120/240 VAC

RELIANCE CONTROLS

INSTALLATION INSTRUCTIONS

IMPORTANT: Installation of this power inlet box and related wiring must be done by a qualified electrician in compliance with all applicable electrical codes. When used to power a structure, this inlet must be used in conjunction with a transfer switch. Not for indoor use. When using an engine driven generator, locate away from doors and windows to avoid the build-up of carbon monoxide from the engine exhaust in enclosed areas.

INSTALLING A REMOTELY LOCATED POWER INLET BOX FOR SUPPLYING POWER TO THE POWER INLET OF A TRANSFER SWITCH OR PANEL

Installing the Power Inlet Box

Mount the power inlet box on the outside of the building in a convenient location, using the three holes provided in the back of the cabinet. Using ***copper wire only*** and approved wiring methods, run the wiring through one of the knockouts in the cabinet to a junction box located near the transfer switch. If using conduit, pull at least three color-coded wires (AWG #8 minimum, AWG #4 maximum) -- use white for neutral, and two other distinguishing colors (typically black and red) for the 240V line. If not using conduit or if otherwise required, include a green wire as a separate ground wire.

Strip the wire insulation 5/8" (do not tin conductors) and connect the wires in the power inlet box as follows making sure there is no wire insulation in any terminal and the inlet terminal screws are tightened to 35 inch-pounds torque using a slotted screwdriver :

240 Volt line wires to the brass terminals marked "X" and "Y".
White wire to the nickel-plated neutral terminal marked “W”
Green power inlet wire to green ground screw terminal on inside of cabinet.
If required, green wire to green ground screw terminal on inside of cabinet.

Installing a junction box and cord connector

The cord assembly from the junction box to the transfer switch power inlet is to be made of four-conductor cord suitable for a 50 Amp. load. The insulation on each of the wires is colored to identify with the standardized coding in plugs and receptacles. Wire colors are usually white, green, black, and red. One end of the cord will be connected to the wires in the junction box, and the opposite end will be connected to a Type **CS-6364N** (such as the Reliance Cat. No. LL550C) connector which will mate with the power inlet on the face of the transfer switch. Remove one junction box knockout and insert a cord grip and the cord.

Connect the wires in the junction box as follows:

Red and black cord wires to 240V line wires from the power inlet box.
White cord wire to the white neutral wire from the power inlet box.
Green cord wire to junction box ground screw.
Green wire from power inlet box, if required, to junction box ground screw.

Following the wiring device manufacturer's instructions, wire the **CS-6364N** connector as follows:

Red and black wires to the brass terminals marked "X" and "Y".
White wire to the nickel-plated neutral terminal marked "W".
Green wire to the green ground terminal marked "G".

A diagram of the above arrangement is shown below. It is not necessary to detach the connector from the swtich or panel when generator is not in use, and for convenience may be left in place at all times.

INSTALLING A REMOTELY LOCATED POWER INLET BOX FOR CONNECTION DIRECTLY TO A HARD-WIRE TRANSFER SWITCH OR PANEL:

Installation will generally be as described above, except that the wiring can be run directly to the transfer switch or panel. Wire connections are to be made at the transfer switch or panel according to manufacturer's instructions.

PREPARING A CORD FROM THE GENERATOR TO THE POWER INLET BOX:

Using a 4-conductor 50 Amp. portable cord suitable for the purpose, attach a male plug matching the configuration of the generator outlet to one end, and a Type **CS-6364N** connector (which will mate with the power inlet in the power inlet box) to the opposite end.

Following the wiring device manufacturer's instructions, wire the generator plug and the **CS-6364N** connector as follows:

Red and black wires to the brass terminals marked "X" and "Y".
White wire to the nickel-plated neutral terminal marked "W".
Green wire to the green ground terminal marked "G".

