

100 Amp Reverse-Y Adapter

Cat. No. YQ100 Plus

Installation Instructions

GENERAL

Proper operation of this device provides 100 Amp output capability to the ship's electrical system from two 50 Amp, 125/250VAC shore receptacles. The actual supply voltage will be limited by the electrical supply at the dock. Check voltage ratings of the equipment on board to ensure compatibility with the incoming line voltage.

WARNING: RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER. Hazardous voltages inside. No user serviceable parts. Refer to qualified service personnel.

CAUTION: Risk of severe equipment damage. There is no neutral connection supplied by this device. This device must be connected to an on-board, center-tapped isolation transformer. If such a transformer is not present, DO NOT USE THIS DEVICE.

CAUTION: THE YQ100 PLUS DOES NOT PROVIDE OVER-CURRENT PROTECTION. If only one 50 Amp shore power receptacle is available, the YQ100 Plus can still be used to supply power to the 100 Amp output cable through the 50 Amp "A" cable. Note that the available current will only be a maximum of 50 Amps. Attempting to draw more than 50 Amps will cause the shore power circuit breaker to trip and/or cause serious damage or injury.

NOTICE: Check unit for damage caused by shipping or handling before connecting. If any damage is found, **do not use**. If accidental submersion occurs, remove all power and return the unit for service.

CONNECTION

1. Turn off the ship's shore power connection switch before connecting or disconnecting the shore power cable. Connect the shore power cable from the ship to the 100 Amp connector that exits the YQ100 Plus.
2. Locate two 50 Amp, 125/250VAC shore power receptacles. Turn OFF the circuit breakers for each receptacle.
3. Connect both 50 Amp, 125/250VAC cables from the YQ100 to the two 50 Amp, 125/250VAC shore power receptacles.
4. Turn both 50 Amp shore power circuit breakers ON. A single click should be heard inside the YQ100 Plus after a three second delay. Three LED indicators are provided to indicate power. The two amber LEDs indicate power is present on the 50 Amp input lines and the green LED indicates they are both the same phase and power has been switched to the 100 Amp output connector. Power should now be available to the vessel and on-board equipment can now be turned on.
5. If power does not come ON, verify the circuit breakers have not tripped. If they have not, the two receptacles are out of phase with each other and you will have to locate and use another combination of receptacles that are in phase with each other. **Before disconnecting, follow the disconnection instructions below.**
6. If power will not turn ON after finding the appropriate receptacle combination, there may be an electrical problem at the dock. Ask the dock master to have an electrician check the electrical supply at the dock shore power outlets.

DISCONNECTION

1. Turn both 50 Amp shore power circuit breakers OFF.
2. Disconnect both 50 Amp, 125/250VAC cables at the same time. **CAUTION: RISK OF ELECTRIC SHOCK. NEVER TOUCH EXPOSED PLUG BLADES IF THE OTHER IS CONNECTED.**
3. Disconnect the 100 Amp output cable to the ship.