

Instructions for DC Source Power Supply Module Style IQMDCPM (66C2065)



Fig. 1 DC Source Power Supply Module

THE MODULE

The DC Source Power Supply Module (IQMDCPM) is designed for use with the IQA6400/IQA6600 (66d2045) and DP4000 (66d2040) meters in three-phase applications to 600Vac. The IQMDCPM will power either of these devices from a 20-Watt 24Vdc to 48Vdc source.

The IQMDCPM may also be used in certain applications of the IQA6000/6200 (2d82302) or DP4000/DP4100 (4d13110) where the NEU terminal is grounded. These applications include three-wire applications and applications with potential transformers (PT's). In either of these acceptable retrofit applications, the NEU to GND potential at the meter terminals is zero.

INSTALLATION

This device is designed to be installed, operated, and maintained by adequately trained personnel. These instructions do not cover all details, variations, or combinations of the equipment, its storage, delivery, installation, checkout, safe operation, or maintenance. Care must be exercised to comply with local, state, and national regulations, as well as safety practices, for this class of equipment.



CAUTION

REMOVE ALL POWER FROM (DE-ENERGIZE) THE DEVICE TO WHICH THE POWER MODULE IS BEING ATTACHED OR WIRED; OTHERWISE, SERIOUS OR FATAL PERSONAL INJURY AND EQUIPMENT DAMAGE MAY RESULT.

REMOVING EXISTING POWER MODULE

Disconnect all power to the existing meter, including power to any relay contacts of the device. Clearly mark wire connections to the voltage terminal block. Refer to Fig. 2 and your meter's technical manual. If replacing an existing DC Source Power Module, clearly mark the wire connections to the power connection terminal block. Disconnect all wires from the existing power module.

Unscrew the plug lock assembly on the ribbon cable from the meter chassis and remove the cable from the power module connector. Carefully remove the two shoulder screws that secure the power module to the chassis.



CAUTION

BE PREPARED TO SUPPORT THE POWER MODULE ONCE THE SCREWS HAVE BEEN REMOVED.

MOUNTING TO IQ ANALYZER OR DP4000

Place the DC Source Power Module in its mounting position on the rear of the meter chassis, in the same position as the one removed. Replace the two shoulder screws to secure the IQMDCPM. Reconnect all wires to the IQMDCPM and meter - tighten all screws.

REMOTE MOUNTING OF THE IQMDCPM

In those cases where it is necessary to mount the IQMDCPM separately from the chassis, be sure that:

- (1) The location allows for a cable connection between the meter chassis and the IQMDCPM by means of a 45-inch extension cable (IQA45CABLE).
- (2) The IQMDCPM physical dimensions are shown in the Fig. 2 below.

To mount the IQMDCPM, use the module as a drilling template at the new location. The two #8-32 screws can be used to remount the module in holes that are properly drilled and tapped.

Reconnect all wires to the IQMDCPM and meter — tighten all screws.

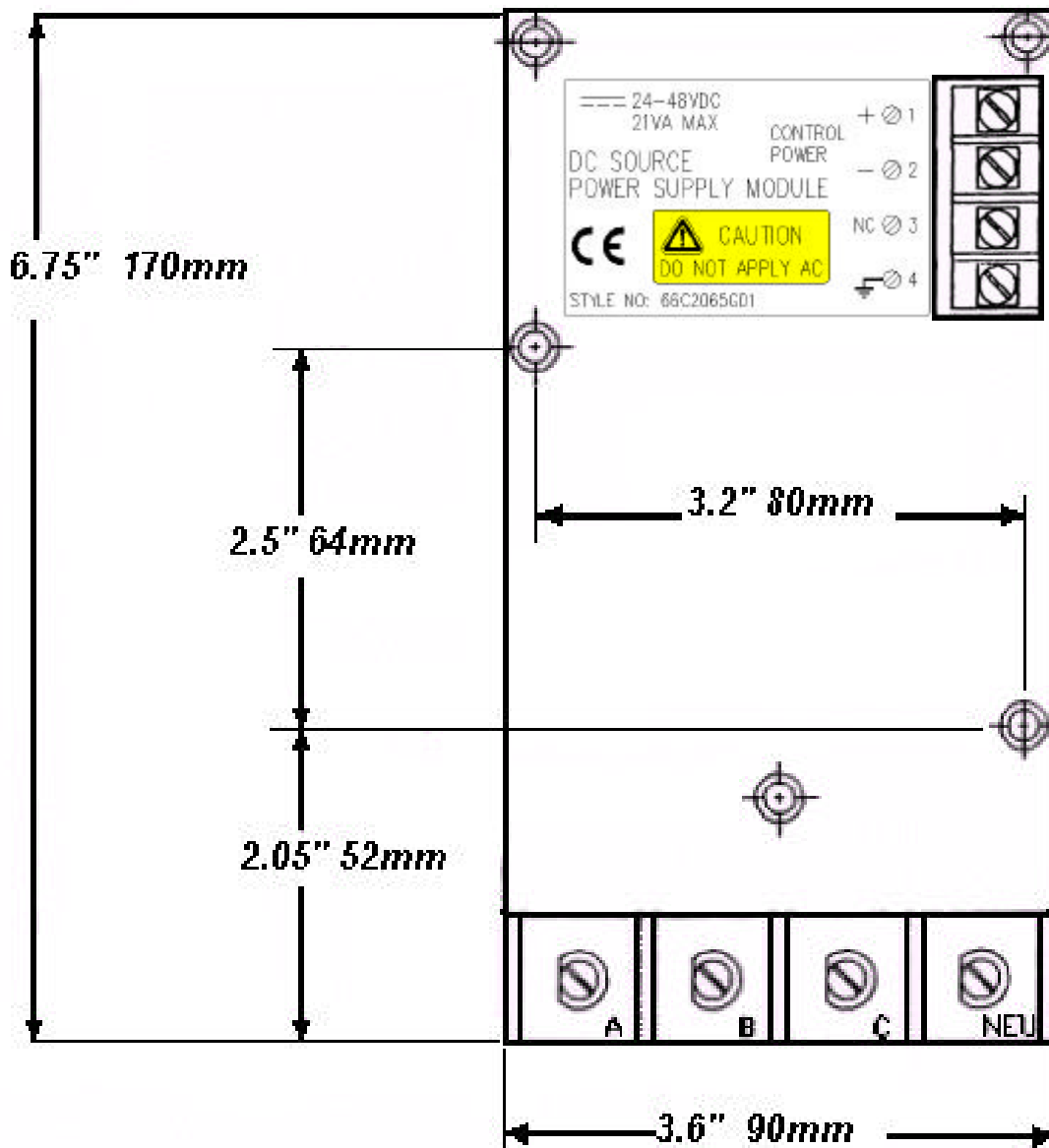


Fig. 2 Power Module Physical Dimensions and Mounting Holes

OPERATION CHECK

The appropriate wiring configuration for 24Vdc to 48Vdc operation is shown on the wiring label attached to the rear of the IQMDCPM.

Verify the polarity of the dc supply.

Verify that the NEU terminal is used. In three-wire applications or applications with PT's, the NEU terminal must be tied to ground. Otherwise, wire NEU to the power system's neutral.

Apply control power to the meter across terminals 1 and 2 of the IQMDCPM. The front display of meter should now be lit. If the device is not powered, remove power coming to the IQMDCPM and check the wiring diagrams and device connections. Restore control power.

Restore AC line power to the meter and check readings on the unit. If the readings do not check out, or an alarm condition occurs, consult the instruction manual or call Power Management Application Support at **1(800) 809-2772**.

MAINTENANCE

This industrial type control is designed to be installed, operated, and maintained by adequately trained personnel. These instructions do not cover all details, variations, or combinations of the equipment, its storage, delivery, installation, checkout, safe operation, or maintenance. Care must be exercised to comply with local, state, and national regulations, as well as safety practices, for this class of equipment.

There are no user serviceable parts on the DC Source Power Module. The user should not attempt servicing this equipment. Please contact your local Cutler-Hammer representative or the Cutler-Hammer Power Management Application Support (PMAS) for service information or additional questions.

CONTACT INFORMATION

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