

INSTALLATION INSTRUCTIONS

(These Instructions are applicable for DC-DC CONVERTERS with Model Nos. DY 224500, DY 248500A, DY 248500B, DY 3481K2 and DY 24500-Slim Line only.)

New DC-DC Converter is delivered with wired cabinet and Modules in separate package.

1) GENERAL INSTRUCTIONS:

- a) Unpack the cabinet and install at the assigned place.
- b) DC-DC Converter to be kept at least one foot away from the wall to ensure proper ventilation.
- c) Switch OFF all the Switch / MCB provided on the unit front Panel / Rear Panel.
- d) Connect Input Cables (proper rating) to Input Terminal as per + / - marking shown.
- e) Connect the equipment Load cables of (proper rating) to load terminal as per + / - marking shown.

2) MODULE INSTALLATION:

- a) Remove module fixing screws from the cabinet (normally fixed and supplied along with cabinet).
- b) Unpack Modules from their packing.
- c) Place them and slide in on the shelf and fix the front panel using the fixing screws.
See that all the module input/output Switch's / MCB's are in the OFF position.
- d) Plug-in input & output connectors of all the modules.

3) PRESTART TESTING:

Before switching ON Converter modules the following checks to be conducted to verify correctness of external wiring :

- a) Check that the module input connection is make as per polarity as per marking.
- b) Check that the module output connection is make as per polarity as per marking.
- c) Switch ON Corresponding module Input MCB if display reads correct voltage, connection is proper. If input connection are Reversed Input MCB'S of all the modules will trip and display will not light ON then disconnect Input wires and connect with correct polarity.

4) DC-DC CONVERTER POWER SUPPLY STARTUP:

After successful completion of prestart Test, Power supply can be started.

- (a) Connect equipment cable to the Output terminals. If Output connection are Reversed then Output MCB'S all the modules may trip.
- (b) Set Analog Meter (for Model DY 3418K2) / Digital Panel Meter to Voltage positions by means of respective voltage Selector Switches. Meter must read Input/Output Voltage.
- (c) Set Meter to Amps positions by means of respective Amps Selector Switch. Meter must read corresponding Load current supplied by the Module.

Now the DC-DC Converter Power Supply is fully operational.

RECTIFIER MODULE REPLACEMENT:

Rectifier modules can be easily installed in an operating Power Plant without interrupting normal functioning. The following steps must be adopted to remove module from a live cabinet.

- (a) Switch OFF both input AC Switch / MCB and output Switch / MCB of the module and plug out AC Input connector and Output connector. Note that both connectors are live and to left hanging with Pins facing down words.
- (b) Remove fixing screws (2 nos./ 4 nos.) and pull the module out of the cabinet.

For installing a new module in an empty slot of an operating Power Plant the method to be adopted is given as below.

- a) Slide in the module into their respective guides.
- b) Fasten it with bottom Screws Switch / MCB.
- c) Keep the Module Input/Output MCB in the OFF position
- d) Plug-In Input and output Connectors.
- e) Switch ON I/P AC Switch / MCB fist, Switch ON O/P Switch / MCB only after all the normal indicators (AC ON, DC ON) light up. This procedure prevent any transacts (Voltage dip) being generated at load terminal.