Replacement of 2400 Inverter Module - P/N 578100

(Please refer to front view of the GPU to locate the Power Module)

1

Switch off the converter and wait 5 minutes before you remove any covers / panels to replace the Inverter Module.

Warning!

Capacitors remain charged to dangerous voltages.
Discharge time: 5 minutes

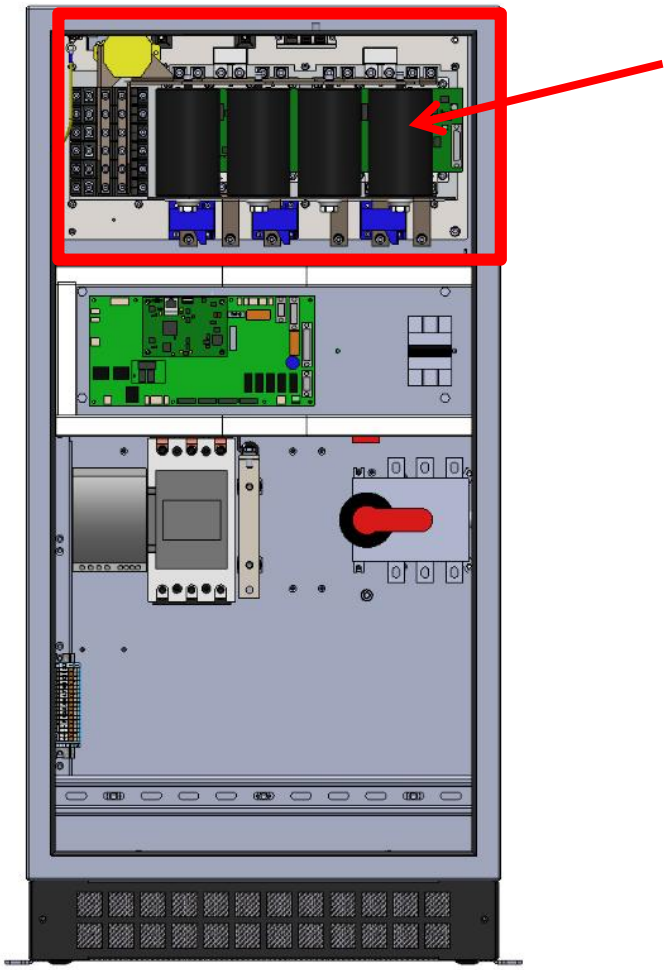
To access the Inverter Module, please remove the protective cover, located behind the front door.

Caution!

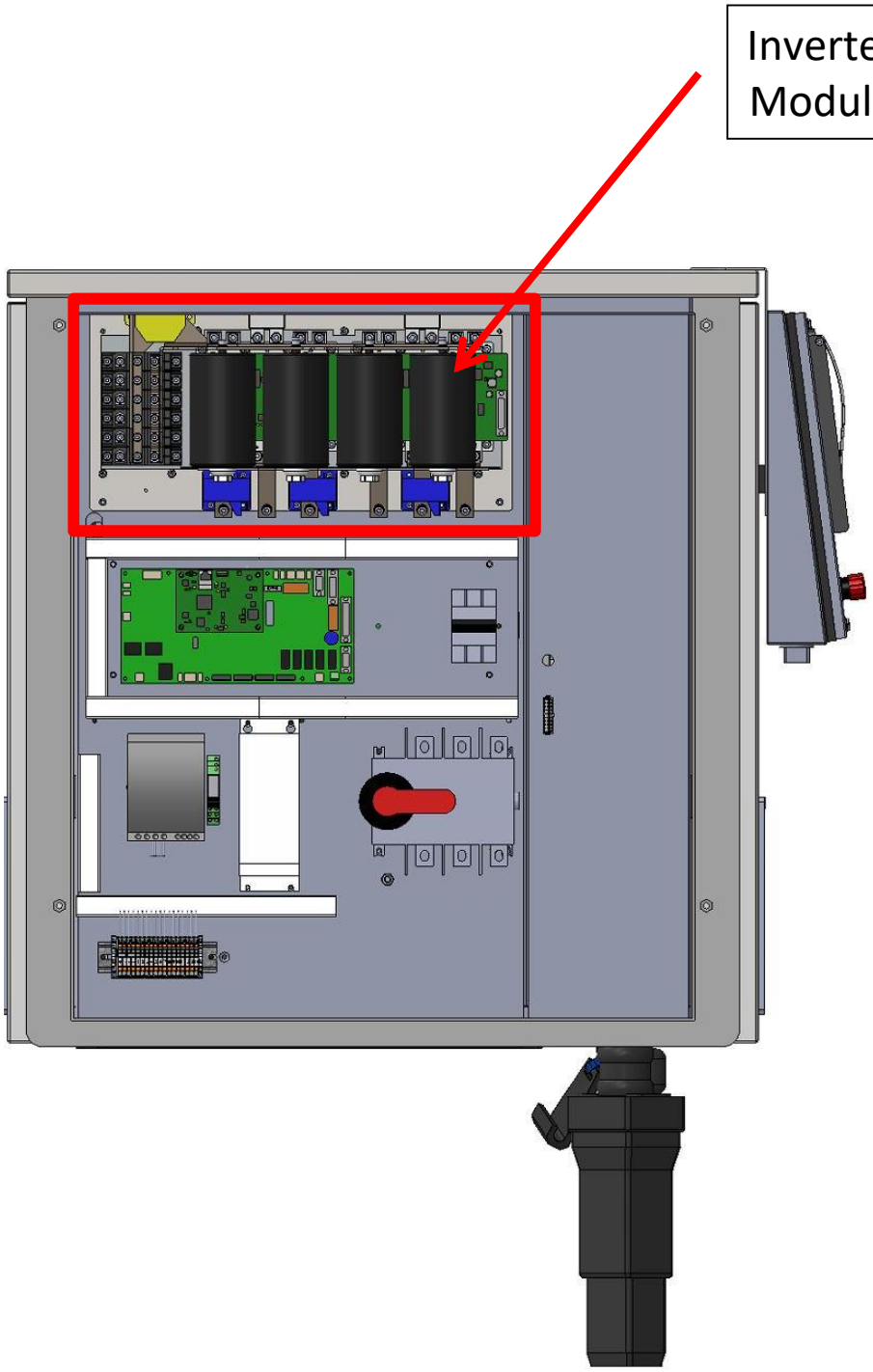
Check that DC Voltage on the DC-Busbar, has discharged before proceeding.

2

400 Hz GPU (2400)



400 Hz PC (2400)



Note!

Inverter Module weight = 22 kg / 48 lb

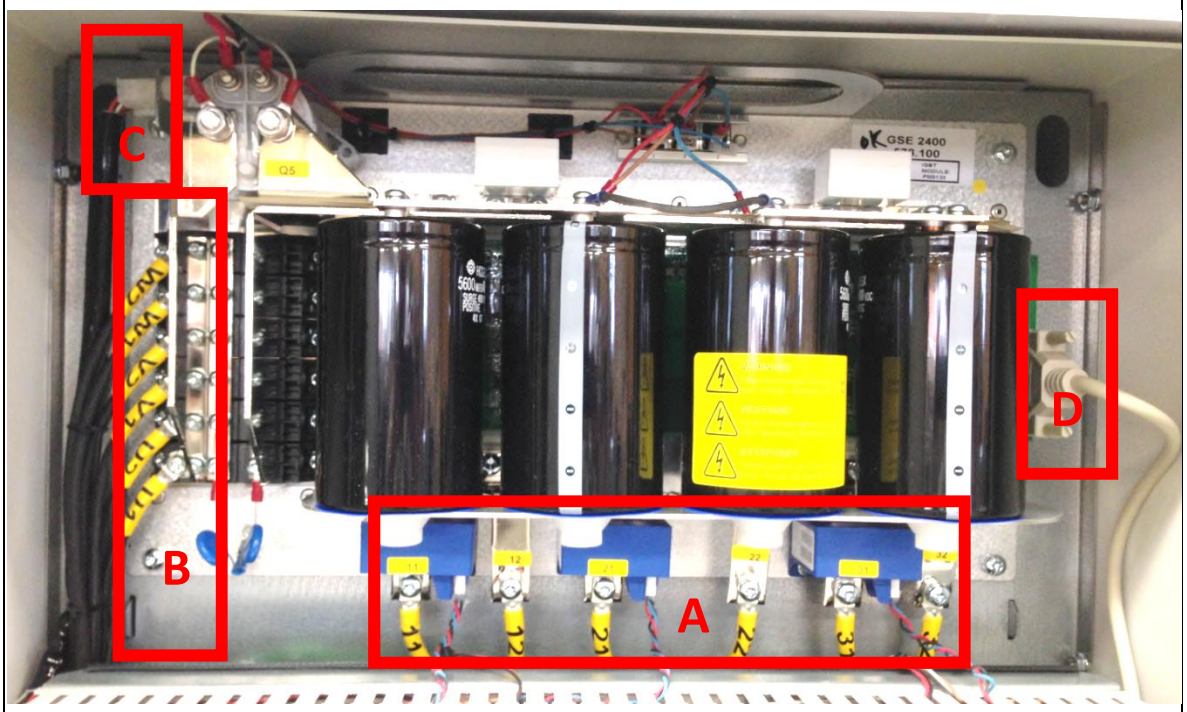
3

A. Disconnect the 6 Power cables / 3 CT Plugs. Marked A

B. Disconnect the 6 DC rectifier cables. Marked B

C. Disconnect AUX plug. Marked C

D. Disconnect X10 Gate Drive cable. Marked D



E. Remove the 4 screws on the Inverter Module. Marked with ◯

4	Remove the Inverter Module from the unit and install the replacement Inverter Module. Reverse the procedure. Mount the 4 screws (E) / X10 Gate drive cable (D) / Aux plug (C) / DC rectifier cables (B) – Torque = 3.1 Nm (27.4 in-lb) / 6 Power cables (A) – Torque = 6 Nm (53.1 in-lb)
5	Install the protective cover.
6	Switch on the converter and close front door.
7	Display should now show "Ready to use"  **Note!** Display screen may vary depending on configuration.
8	Start the unit and it should now be running without error messages.
9	Stop the unit and apply Load Bank to the output cable. Start the unit and apply appropriate load (depending on converter size) and let it run for 10 – 15 minutes. During operation check values in display and at output (voltage / current / kVA / kW), to verify that the unit works correct. For the above a DVM and current probe can be used. Stop the unit and remove the load bank. The unit is now ready for operation again.

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