number and if there are corresponding RFFE and RFBE board configuration files from a previous module or saved configuration, the inserted modules configuration will be updated by the CSC accordingly.

A label bearing the respective module's model number, version and serial number identifies each module. This label is adhered to the side of the module and is not visible without removing the module from the slot.

A user definable removable yellow plastic labelling system has been provided on the external surface of the BPFM bolted to the RFFE and RFBE modules to assist the user to identify allocated ports once the user has configured the DSPbR using the web browser.

### 3.3.1 PSU Inlet Module

The PSU inlet module is a power-conditioning module. There are three versions of this module; 240VAC, 110VAC and a 48VDC. Both the 240AC and 110VAC inlet modules have an IEC320-C19 socket into which the provided and respective mains power cord is plugged. The inlet module provides a degree of mains surge protection.

Although the AC PSU module accommodates an input voltage range from 110V to 240V, the appropriate 110V or 240V AC inlet module has to be fitted.

### 3.3.2 PSU Module

The PSU module is designed as modular and removable from the front of the repeater. Preceding the AC PSU is the appropriate inlet module. Currently, two PSU modules are available, 110VAC/60Hz to 240 VAC/50Hz AC and a 48VDC version.

To remove the PSU module, unscrew the six front mount screws from the front of the unit as illustrated in Figure-4.

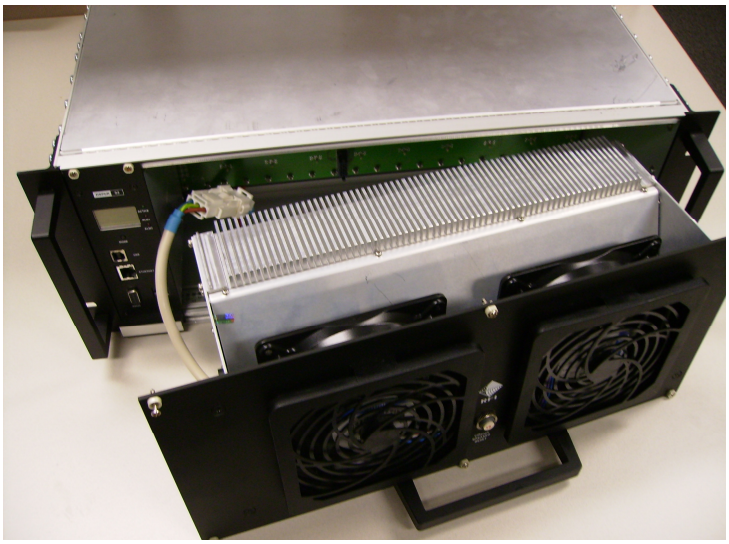

Figure 4 – DSPbR AC PSU

When removing or replacing the PSU, ensure to disconnect or connect the in-line plug / socket into the inlet module.

There are three replaceable inverter fuses located within the AC PSU module and in order to check or replace any of these fuses, the PSU has to be unscrewed from the sub rack frame as previously illustrated in Figure-4, lever forward on the guide rails using the available handle far enough to access the fuse holders as illustrated in Figure-5.

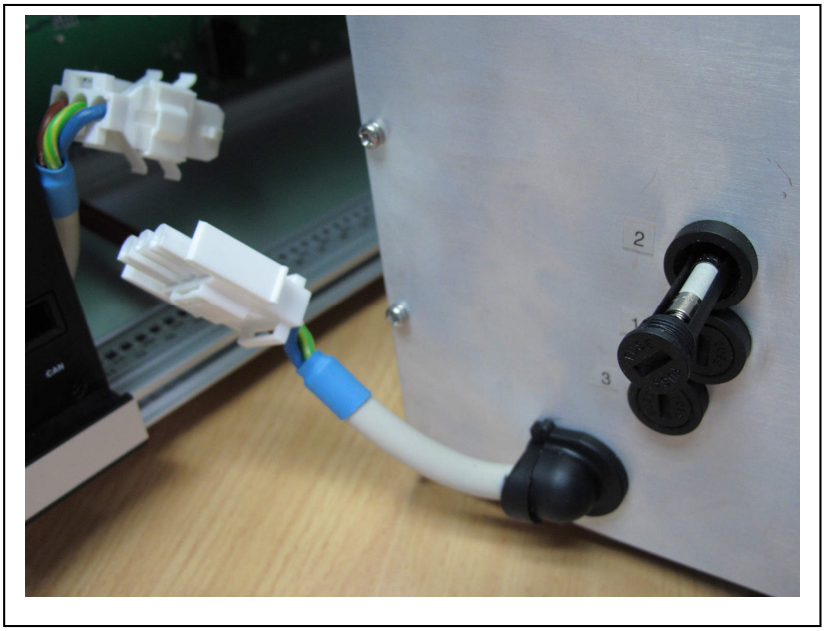


Figure 5 – AC PSU fuse location.

All three fuses are identical and listed under the DSPbR part number reference list.

An AC mains supply resettable circuit breaker is mounted on the front of the DSPbR PSU between the two fans. Should this AC resettable circuit breaker "pop-out" under operational conditions; a PSU failure alarm will be activated. It is strongly recommended that an investigation be made prior to resetting the circuit breaker as to the possible reasons why the circuit breaker was activated.

### 3.3.3 CSC – Central Systems Controller Module

The Central System Controller module is located at the front of the DSPbR and is positioned on the extreme left hand side as illustrated in Figure-6. An LCD display, a power and two alarm LED's, mode change button, USB Type B, TCP/IP RJ45, RS232 socket and CAN bus RJ11 socket are located on face of the CSC module. DSPbR configuration and diagnostics for all modules is via the CSC module.