



F010

1RU RACK WITH DUAL PSU



Provisional

Handbook

Version 0.3



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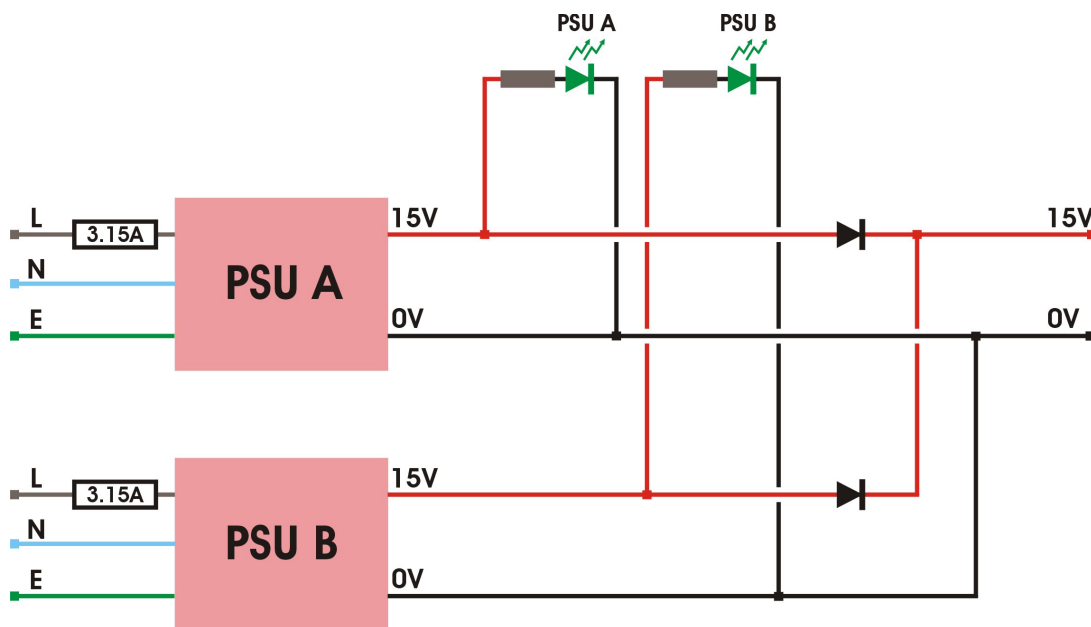
Introduction

The Hawkeye F010 can house up to two Vistek style Hawkeye modules with the benefit of two power supplies for redundant operation.



The F010 with front panel removed and two modules fitted

The F010 uses the same rear modules as the 3RU Vistek frame, but cannot accommodate rear connectors from the Vistek 1RU frame.



The F010 Dual PSU wiring

Dual autosensing PSUs are fitted as standard to provide redundant operation for 24/7 and transmission chain applications.

Front panel green LEDs provide continuous monitoring of the health of each PSU.

Note: PSU switch over in the event of a failed PSU is entirely automatic.

PSUs are wired into place at the factory and cannot be removed without removing the frame from the rack.

Main features

- Two slots for up to 2 Vistek style modules from the Hawkeye range
- Two 90-132/180-240 Volt (auto-sensing) PSUs fitted as standard
- Drop down front panel for easy module access
- Continuous PSU health monitoring via front panel mounted green LEDs
- Automatic PSU switch-over in the event of a failed PSU

Installation

Unpacking

Please check the contents of the transit packing against the dispatch note, checking that each item is present and that no damage has occurred whilst in transit.

Any damage or shortages should be reported immediately to dB Broadcast Ltd., or your dealer.

Precautions

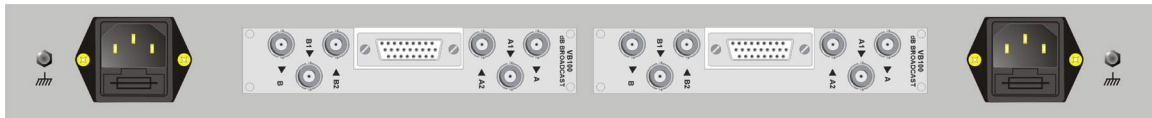
- Ground** To avoid electric shock this product must be grounded through the power cord protective ground wire or the earth terminals provided at the rear of each PSU.
- Power cable** Only power cords that meet the required specification for this product should be used.
- Fuses** To avoid fire hazard use only fuses of the type and rating specified.
- Ventilation** On no account should the top and bottom air vents be blocked to the flow of cool air. A clearance of 30mm is recommended above and below the unit to maintain good airflow.
- Cable access** Ensure that all cables have adequate strain relief as they enter mains/signal I/O plugs and sockets at the rear of the frame.

Warning These instructions are for use by qualified personnel only. To reduce risk of electric shock, do not perform any installation or servicing other than that contained in this manual unless you are qualified to do so.

On no account should the rack be powered whilst covers are removed.

Rack mounting and ventilation

The unit must have adequate ventilation. Install in standard 19" racks with cool air circulation ensuring that top and bottom ventilation grilles are unobstructed. Try to leave a clearance of 30mm at the top and bottom of the frame.



The F010 rear view

Install the F010 frame in a standard 19 inch rack as follows:

- Mount in the rack and secure via the rack ears using M6 fixing screws and plastic washers (to prevent damage to paint work)
- Allow adequate space (30mm) above and below the frame for ventilation

Connecting mains cables

The 1U frame is powered by connecting suitable power cords to both IEC connectors.

Note: Power redundancy cannot be provided unless both PSUs are powered and working.

Mains cables should have a minimum current rating of 6A and be fitted with IEC 320 female connectors. They include a protective ground connection and meet relevant local safety standards.

Tip: Separate earth terminals are also provided at the rear of each PSU if alternative earthing arrangements are required.

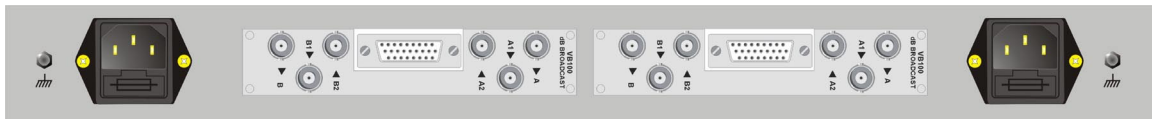
Note: The fuse holder is part of the mains inlet. The mains cable must be disconnected before the fuse can be accessed. Replace the fuse only with one of the same type and rating. Refer to the specification section for more information.

Fitting rear connectors

The available rear connectors depend on the Vistek style modules that are used. Please refer to the documentation that came with the modules for available rear connectors.

To insert rear connectors proceed as follows:

- Offer up the desired Vistek rear connector so that the connector plug mates with the internal frame motherboard socket at the rear of the frame
- Push the rear connector home and tighten the retaining screws



The F010 rear view with two rear connectors fitted

Note: The rear connector silk screen text will be rotated to the right when the rear connector is oriented correctly at the rear of the frame.

Fitting modules

To insert modules proceed as follows:

- Pull the front cover forward on its internal rail supports using the handles provided, then adjust the front cover to lie flat to provide access to the module slots.
- Offer up the appropriate module at the front of the frame for the Vistek rear connector fitted in that slot position
- Push the module home ensuring that the module slides into position using the slot guides and that the module connector mates with the internal motherboard socket
- Tighten the module retaining screws
- Rotate the front cover to the upright position and push it into position on the frame, taking care not to trap the LED wiring



The F010 Dual PSU 1U Vistek frame with two modules fitted

Note: The module silk screen text will be rotated to the left (with PCB components uppermost) when the module is oriented correctly at the front of the frame.

Trouble shooting

Does the F010 accept all Vistek modules?

Currently, the B062 is the only Vistek module that cannot be used in the F010 frame.

Is it necessary to change any jumpers or switches when using the frame with different power sources?

No. The PSUs will autosense any AC input voltage between 90-132 V or 180-240Vac at 47 to 63Hz

The front A or B PSU LED is not lit green, what should I do?

Check that the A or B frame is cabled correctly and that its fuse (internal to the IEC connector) is intact.

Check that the power source used is functioning correctly and switched on.

If necessary, fit a spare PSU.

How are PSUs changed?

Each PSU is wired into the frame at the factory. The frame has to be disconnected from the mains supply and removed from any rack or bay to allow the PSU to be changed.

A PSU change procedure will be released at a later date.

Specification

F010 Dual PSU Vistek frame

Dimensions: 482mm wide (19 inches), 43.6mm high (1U), 420mm deep. Weight 2.7 kg

Operating conditions: 0 to 40 degrees C non-condensing
Ventilation bottom to top, without air filters

PSU input voltage 90-132V and 180-240Vac (auto select)

PSU input frequency 47 to 63Hz

Spare PSU Order code F010 PSU

Connectors 2 x IEC AC Mains

Fuse T3.15A 20mm x 5mm