1. Product Range

Catalogue No.	Product name	Description
T8230	Power Shelf	19” x 1U chassis for up to 3 Power Packs. Includes 4U fixing kit, Power Port (with push fit BLZF 3.5/10 connector), mains plugs and retaining clips.
T8231	Power Pack 24Vdc	750Watt, universal input, 24Vdc out.
T8232	Power Pack 28Vdc	750Watt, universal input, 28Vdc out.
T8233	Power Port	Plug in diagnostic interface.
T8234	Power Controller	For live adjustment of output voltage. 19” x 1U.
T8235	Power Shield	Covers unused Power Pack positions
TC-323	Power Shelf Interconnect	For connection to a Power Controller or for current sharing

Table 1 T823X Power System Product Range

2. Assembly

A pair of brackets mounted in to a 19” frame supports up to 4 Power Shelves and are required to provide support at the rear of the Power Shelf

The brackets supplied mount the equipment by its 19 inch rack ears and provide a box structure to brace the power supplies. The back of the power supplies are fixed using M3.5 screws that are fixed via tapped holes in the Power Shelf. The front of the power shelf is located and supported via screws through the lugs of the Power Shelf.

The Mounting bracket occupies 4U and can accommodate up to 4 Power supply shelves. The design is such that no space outside the 4U aperture is required. When installed it is possible to remove individual Power Shelves should this be required. The design of the mounting bracket does not obstruct access to the front or back of the Power Tray.

Power Packs are slotted into the 1U Power Shelf with the first Power Pack in the right hand slot, as shown in Figure 4. Each Power Pack provides 750W (31.25A at 24Vdc) to the DC output on the Power Shelf.

The standard AC input connection to the Power Shelf is through IEC320 type connectors rated at 10A/250Vac in Europe/Asia and 15A/120Vac in North America.

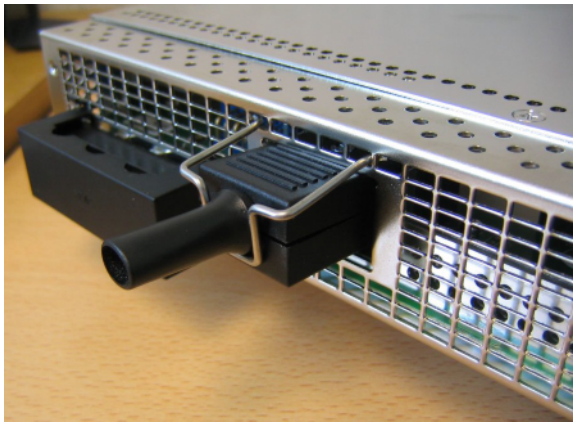

Figure 3 AC Power Connectors and Retaining Clips

Output terminal blocks on each Power Shelf have three M4 screw connections. Ring type connectors should be used when connecting from the Power Shelf to system power distribution bus bars.

The Power Port plugs into the back of the Power Shelf and requires a 24V supply. The Power Port can provide monitoring and control via a 25 way D connector when connected to a Power Controller. A separate connector (CON3) via a push fit connector (supplied), provides DC and AC fail contacts. When more than one Power Shelf is used, Power Ports are linked via the CS terminal, using a power shelf interconnect cable to enable current sharing.

Spare slots in the Power Shelf are covered by Power Shields.

The 1U Power Controller is connected via the Power Port, using a TC-323 Power Shelf Interconnect ribbon cable, and allows live configuration of output voltage. The Power Controller can monitor up to 12 Power Packs in 4 Power Shelves. Each Power Shelf is identified by the Power Controller by selecting addresses on the Power port as described in paragraph 5.2.4.

Unused slots in the 4U brackets may be used for other equipment or fitted with blanking plates.

Unused connectors on the TC-323 ribbon cable should be tied back and left unused.