

Trusted Power System

Product Overview

The Trusted® Power System is a high density flexible power supply designed to convert main line voltages of either 110 Vac or 240 Vac. Outputs are either 24 Vdc for Trusted product or 28 Vdc adjustable field power.

The Trusted Power System consists of a 1U Power Shelf with mechanical support, containing up to three 750 W Power Packs. The Power Packs load share in configurations using one or more Power Shelves. Each Power Pack has an individual supply connection via a mechanically retained IEC 60320 type connector. Each Power Shelf can supply 2250 W of power or 1500 W with n+1 redundancy from a single source. Multiple units can be connected for further capacity or redundancy requirements.

Diagnostic information of Power Pack status is provided via the Power Port, which connects to the rear of the Power Shelf. This device monitors input and output conditions and reports out of range faults and over-temperature/fan failure using relay contacts. The Power Port also allows connection of the optional rack mounted Power Controller for live configuration of output voltage and current, monitoring up to 12 Power Packs in 4 Power Shelves.

Features:

- Redundant and n+1 configurations.
- Hot replaceable Power Packs.
- Current sharing.
- Current limiting.
- Power factor correction.
- Diagnostic contacts.
- Configurable output voltage.
- Input/output fail diagnostics per Power Pack.



1. Product Range

Catalogue No.	Product name	Description
T8240	Power Shelf	19 inch x 1U chassis for up to 3 Power Packs. Includes Power Port + 10-way cable connector, 3 off mains plugs and retaining clips.
T8231	Power Pack 24 Vdc	750 W, universal input, 24 Vdc out.
T8232	Power Pack 28 Vdc	750 W, universal input, 28 Vdc out.
T8243	Power Port	Plug in diagnostic interface + 10-way cable connector.
T8234	Power Controller	For live adjustment of output voltage. 19 inch x 1U. 1 x 5 way ribbon cable.
T8235	Power Shield	Covers unused Power Pack positions.
TC-323	Power Shelf Interconnect	1 x 5 way ribbon cable for current sharing between shelves and connection to a Power Controller.
T8247	Power Shelf support brackets	A pair of brackets that can support up to 4 Power Shelves.

Table 1 T824X Power System Product Range



Figure 1 Front View - Power Shelf with Power Packs