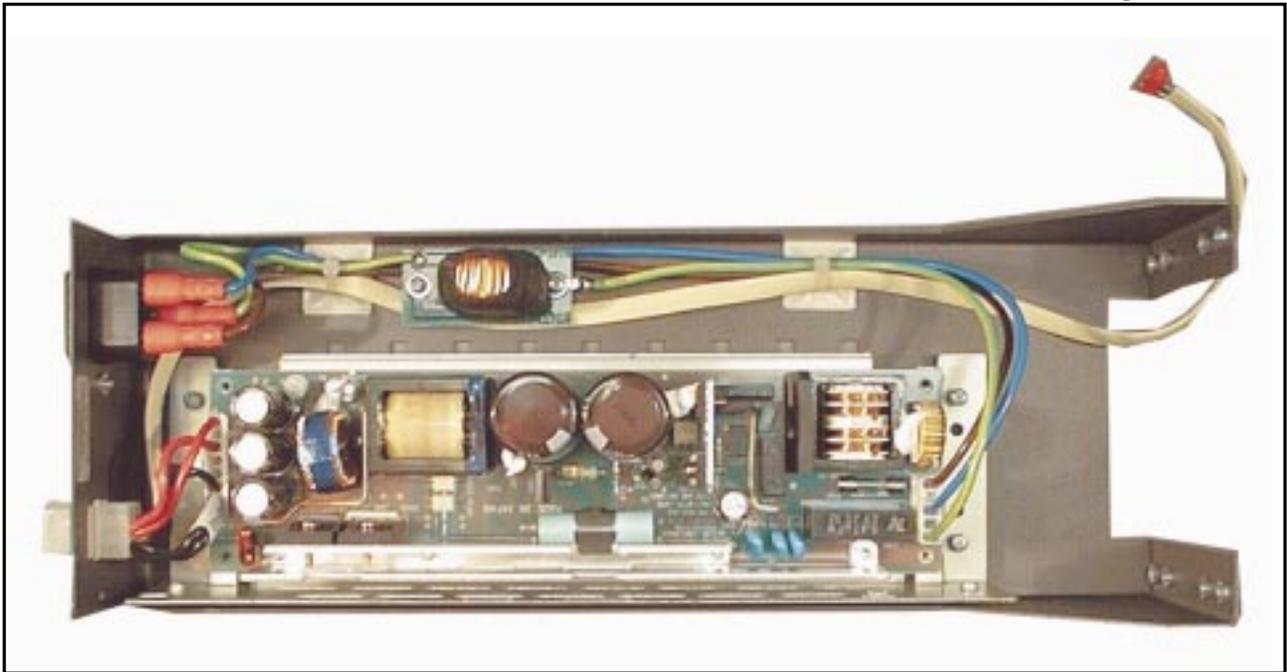




# NEW PRODUCT ANNOUNCEMENT

## *T800-23-0010 Power Supply*



### OVERVIEW

The T800-23-0010 Power Supply Unit (PSU) is a 100W switched-mode power supply that has been developed to replace the existing Tait T708-91 / -92 linear power supplies. This development was necessary, given that these units do not comply with certain EMC directives in Europe. As of Jan 2000, both the T708-9x units will be made obsolete.

The T800-23-0010 power supply will be used in ac reticulated variants of the present T800 'Slimline' base station, as well as the imminent Tait Liberty<sup>®</sup> Range of 25W trunked and conventional base-stations. The picture shows the PSU (with cover removed), mounted in its supporting tray. This tray is screwed onto the base-station front panel.

### BENEFITS

<b>EMC Compliant</b>	Greater immunity to conducted and radiated interference. Less likely to cause interference to surrounding equipment.
<b>Reduced Weight</b>	Less weight (360g) compared to about 3 kg for the T708-9x.
<b>Auto-ranging Input</b>	Input voltage is automatically selected, meaning no risk of damage.
<b>Greater Efficiency</b>	Reduced heat leads to longer component lifetime.

<sup>®</sup> Tait Liberty is a Registered Mark of Tait Electronics Ltd

**Overload protection** Over-voltage and over-current protection means no changing of fuses under output fault conditions.

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## TECHNICAL SPECIFICATIONS

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### Input Specifications

Input Voltage	Auto ranging 85 – 132 V ac / 170 – 264 V ac
Frequency	47Hz – 440 Hz
Inrush Current	30A typical

### Output Specifications

Output Voltage	12.5 V dc
Output Current	7.5 A
Ripple and Noise	150 mV max.
Line Regulation	0.04 % max.
Load Regulation	0.08 % max.
Temperature Drift	1% max. 0 °C to 50 °C
Over-voltage Protection	At 115 % - 140 % of rated
Over-current Protection	At 105 % of rated
Rise Time	200 msec max.
Holdup Time	10 msec typical, at 85 V ac input
Weight	Approx 360 g
Compliance	<ul style="list-style-type: none"><li>• EN60950 Electrical Safety (Equivalent to IEC950)<sup>1</sup></li><li>• EN55022 Class B EMC Emissions</li><li>• EN50082-1 EMC Immunity</li><li>• FCC Part 15 Class B</li></ul>

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## ORDERING INFORMATION

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T800-23-0000	Slimline rack kit. Comprises grey-beige Slimline front panel, <u>old</u> 'option tray' to support <u>old</u> T708-9x PSU, and radio interconnect cables. ( <i>Will be withdrawn during 2000 when demand for the new Tait Liberty base-station renders this product obsolete</i> )
T800-23-0010	New PSU only, for warranty/spare purposes
T800-23-0001	Slimline rack kit <sup>2</sup> . Comprises <u>new</u> PSU including integral supporting tray, grey-beige Slimline front panel and radio interconnect cables. No mains cable included. ( <i>Will be withdrawn during 2000 when demand for the new Tait Liberty base-station renders this product obsolete</i> )

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<sup>1</sup> IEC950 covers safety approvals in Australia, NZ, USA and Europe. CSA approvals for Canada are in process.

<sup>2</sup> Note that this is not the new "Tait Liberty Base Station" kit. The Tait Liberty Base Station is not available as a kit, and can only be ordered as a complete base station.

## CONNECTIONS

The picture below shows a rear view of the T800-23-0010 Power Supply. The terminal block is used to facilitate connections to the present T800 Slimline base station. This terminal block is not fitted when the PSU is used in the Tait Liberty base station.

The six-way connector is used to provide the dc output. Programming leads (T800 Series II) and speaker leads are also routed from the front of the radio through to this connector for radio interconnection (evident in the preceding picture)

