



Power supply units

THESE power supply units have been developed for television applications to meet fully both mobile and studio requirements.

Regulated Power Supply Unit

Type B 4201 (BD 654)

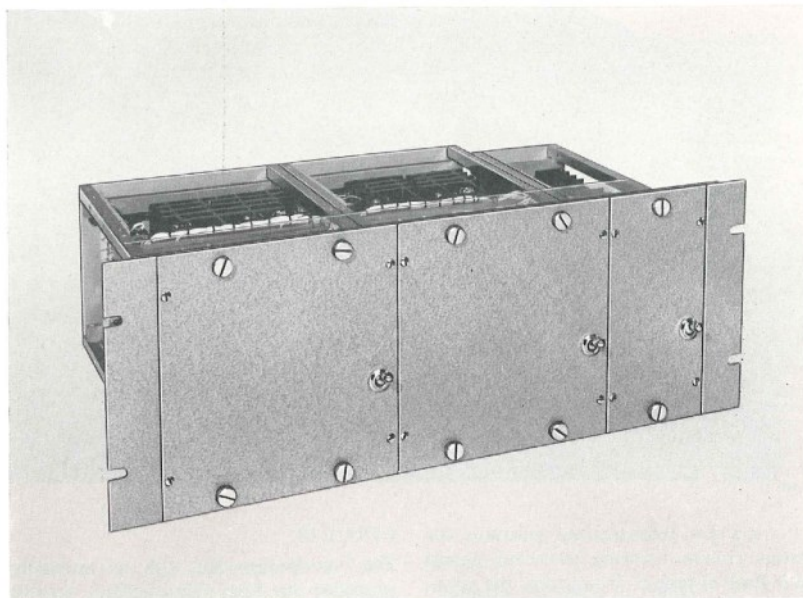
The Regulated Power Unit Type B 4201 has been in service in television applications for some years. It has shown itself to be capable of long and strenuous operation in many parts of the world.

Two series regulator valves are used. One of these is wired permanently in circuit and the other may be switched in or out as required, according to the load current.

DATA SUMMARY

Power supplies:	100–125 or 200–250 V 50–60 c/s, single-phase a.c (5 V steps). 0.35 kVA.
Power consumption:	0.35 kVA.
Output volts:	230–270 V regulated d.c or 330 V unregulated d.c 10 V centring supply.
Output current:	0.4 A max. 0.06 A min.*
Regulation:	$\geq 1 \Omega$.
Residual ripple:	
Regulated	≥ 5 mV p-p.
Unregulated	≥ 2 V p-p.
Dimensions:	
Height	10½ in. (27 cm)
Width	19 in. (48 cm)
Depth	9½ in. (24 cm)
Weight	49 lb (22 kg)

* Unregulated.



Type B 4203 Relay and Transistor Power Supply Unit.

9254

Relay and Transistor Power Supply

Type B 4203 (BD 940)

This unit provides power for the Marconi range of mixers and master switching equipment. Various combinations of two power-supply modules are housed in a standard rack-mounting frame 7 inches (18 cm) high. The two modules are a 3A (5A intermittent) unit suitable for supplying relays and a 1A unit, well-regulated, for transistor amplifiers associated with mixing equipment.

Typical arrangements are one 3A unit with one 1A unit or two 3A units with one 1A unit. Any empty spaces in the mounting frame are covered by blank panels. Solder-type tagstrips at the rear of the assembly carry feeds to the equipment being supplied.

DATA SUMMARY

Input: 100–125 V or 200–250 V (in 5 V steps), 45–65 c/s, single-phase a.c (permissible voltage variation 5%).

Output: 24 V d.c ($\pm \frac{1}{2}$ V adjustment), 3A continuous current. 5A peak.*

Stabilization: 200:1.

Effective output resistance: 0.05 Ω .

Ripple and noise: 10 mV p-p.

Output impedance: 0.25 Ω at 20 kc/s.

Overload protection: Fuse.

Max. ambient temperature: 35°C.

*May be rated 5A continuous where the unit has unrestricted air-flow across the heat sinks.

Marconi

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