

Marconi Relay and Transistor Power Supply Unit Type B 4203

This is an all-silicon power supply module, designed to fit a standard 7 in. (17.8 cm) modular equipment rack-mounted frame Type B 4306 (see page No. 132). With associated modules the unit maintains a uniform and attractive finish to the equipment.

The power supplies are designed to provide a well regulated 24 V d.c. supply for feeding to mixers, relay panels and transistorized units.

FEATURES

All silicon semiconductors.
Electronic overload protection.
Remote error sensing.
No voltage overshoot.
Printed circuit construction.
45°C ambient temperature.

The power supply has a nominal output voltage range of 12 V or 24 V ± 0.5 V and occupies only 3.6 in. of horizontal frame space. The unit provides an output current of 3A maximum.

The module plugs directly into the B 4306 frame in the same way as the equipment modules, electrical connections being made automatically to mains supply and equipment via the frame back-conductor kit.

DATA SUMMARY

Output voltage range: 12 V or 24 V ± 0.5 V.

Output current: 3A max.

Stabilization ratio: Better than 2400:1 for $\pm 10\%$ mains changes.

Output impedance:

At 100 kHz: Less than 0.1 Ω .

At 500 kHz: Less than 0.25 Ω .

Output Resistance: not more than 0.01 Ω

Ripple and noise: Less than 1 mV at full load.

Transient response: Approximately 10 μ s for recovery to within 10 mV of steady state voltage after application of full load.

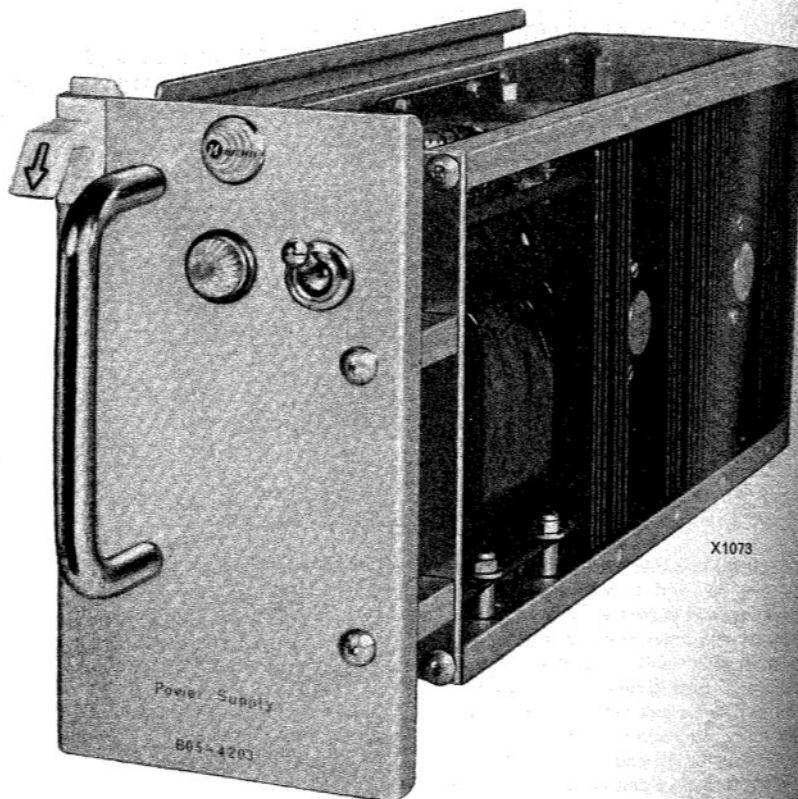
Ambient temperature: -10°C to $+45^{\circ}\text{C}$.

Temperature co-efficient: Less than 0.03 % per deg C.

Input voltage: 100 to 125 V and 200 to 250 V by transformer tap changes at 45 to 65 Hz. Maximum permissible input supply deviation from nominal is $\pm 10\%$.

Dimensions and Weight:

Height	6.4 in.	(16.2 cm)
Width	3.6 in.	(9.3 cm)
Length	13.5 in.	(34.3 cm)
Weight	10.25 lb	(4.61 kg)



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