

POWER AMPLIFIER

Description

The Hyper-Fix Power Amplifier, part of the Type 90512 Power Amplifier/Battery Charger, is designed to amplify the RF output from the Receiver/Controller to a level suitable for transmission.

It is a fully solid state pre-tuned device with a working bandwidth of 1600 kHz to 3400 kHz (in two bands). Full output power is available even with a poor standing wave ratio.

Two LEDS are located on the front panel to provide indication of transmission and frequency (f_1 or f_2). To aid efficiency the Receiver/Controller switches off the amplifier during reception periods.

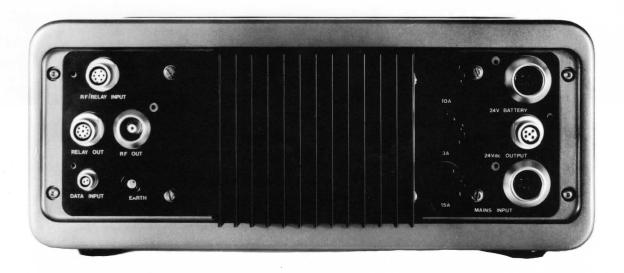
BATTERY CHARGER

Description

This fully automatic 24 V Battery Charger is capable of charging at a maximum of 8 amps. The charging current is automatically reduced as the battery voltage increases. This facility prevents overcharge and at 27 V, the charge current is reduced to about 100 mA.

If the battery voltage drops below 16 volts the charging current is limited to 2 amps.

The station will operate on either mains or battery and the changeover is accomplished with no breaks in supply.



Technical Data

POWER AMPLIFIER/BATTERY CHARGER

Dimensions and Weight

Height: Width:

152 mm (6.0 in) 373 mm (14.7 in) 334 mm (13.1 in)

Depth: Weight:

13.2 kg (29.0 lbs)

Power Supply Input

Voltage:

105V-132V a.c., PSU 90512/1/3/9 185V-265V a.c.. PSU 90512/1/3/8 24 V d.c. (nominal)

Consumption

Typically 45W with Rx./

Controller connected. Maximum 200W

with batteries fully discharged.

Power Output

DC voltage:

24 volts (nominal) for Rx./ Controller fused at 3 amps.

volts (nominal) Batteries fused at 10 amps.

Environmental

Operating

Temperature:

 -10° C to $+60^{\circ}$ C $(+14^{\circ}F to +140^{\circ}F)$

Storage

Temperature:

-30°C to +60°C

 $(-22^{\circ}\text{F to} + 140^{\circ})$

Humidity:

95% RH

Operating **Frequencies** 1600 kHz to 3400 kHz

(2 bands)

RF Input

1.5 V peak to peak

RFOutput

50 watts RMS

Technical Manual

STM 1203

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