



Mobile Regulated Power Supply Unit Type BD629



DESIGNED TO SUPPLY both AC and DC power to a camera channel or vision mixer, the Type BD 629 Supply Unit is suited to a variety of mobile applications when a relatively large regulated anode current is required.

The complete equipment is housed in a mobile carrying case which, during transport, can be fitted into a shock absorber mounting.

The mains input to the unit is taken through a relay which is actuated by a switch on the particular equipment being supplied. The primary of the mains transformer can be adjusted to the supply

voltage by a tap changing switch on the front panel, a voltmeter giving indication of the correct position. The AC output for the valve heater transformers in the various units is taken from the primary tapplings, thus obviating the necessity for tap changing on all the associated equipment.

The weight of the mains transformer is reduced to a minimum by the use of a special glass and silicone insulation which allows it to operate at high temperatures. Cooling is provided by a small suction fan which draws air into the unit through a filter, over the transformer and out past the valves. Weight is also reduced by using a high-capacity low-inductance smoothing circuit.

Part of the rectified DC is electronically regulated by a circuit which uses low-loss regulator valves of a high current capacity. There is a separate current regulator circuit for providing focusing currents, and sources of centring and alignment current are also available.

The voltages and currents in various parts of

the unit can be checked by plugging in an external test meter, which is used in conjunction with an internal selector switch.

The equipment is protected by a time delay switch, which prevents the application of the HT before the heaters in all units have warmed up.

DATA SUMMARY

Power supplies: 91-121 or 193-254 V, 50-60 c/s AC mains.

Power consumption: 1.5 kVA at full load.

Outputs:

Regulated DC: 400-1150 mA at 250-280 V. 15 mA at 150 V.

Unregulated DC: 0-250 V mA at 330 V approx.

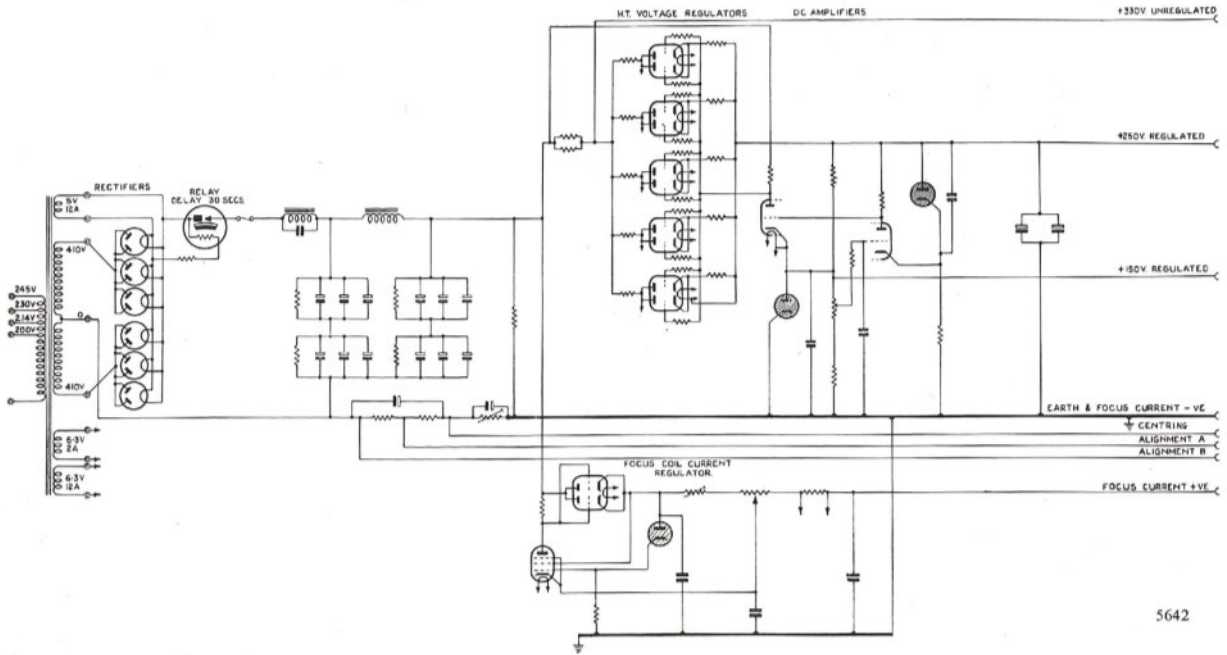
Focus coil (regulated DC): 60-80 mA into 2000 Ω.

Centring supply: 800mA max. at 4V nominal.

Heater supplies: 300 VA max.

Dimensions:

Height	Width	Length	Weight
16 in.	8½ in.	26 in.	80 lb
(41 cm)	(22 cm)	(66 cm)	(35.3 kg)



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