

# BULGIN

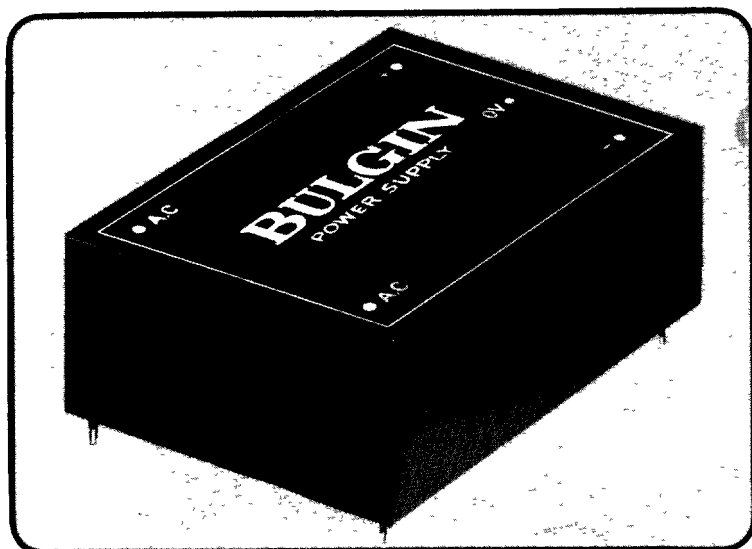


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# Technical Information

## Encapsulated Power Supplies

147-540  
to  
147-543



A new range of high quality encapsulated power supplies, designed to meet the precise requirements of the Electronics Industry

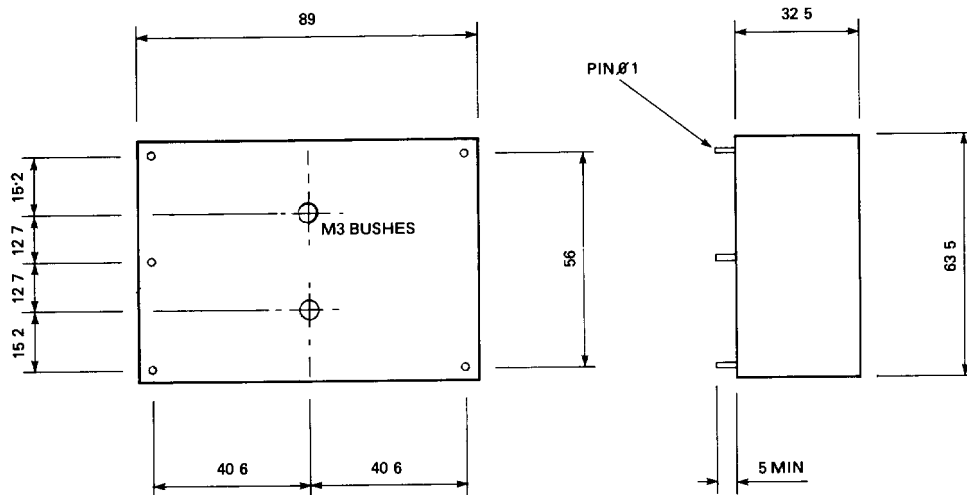
- Low cost.
- PCB Mounting.
- Ideal for powering microprocessors, TTL, CMOS, Op - Amps etc.

These supplies are potted in glass - filled nylon cases for optimum protection.

They have a mechanical fixing facility by the use of 2 M3 bushes located on the base of each unit (see drawing below)

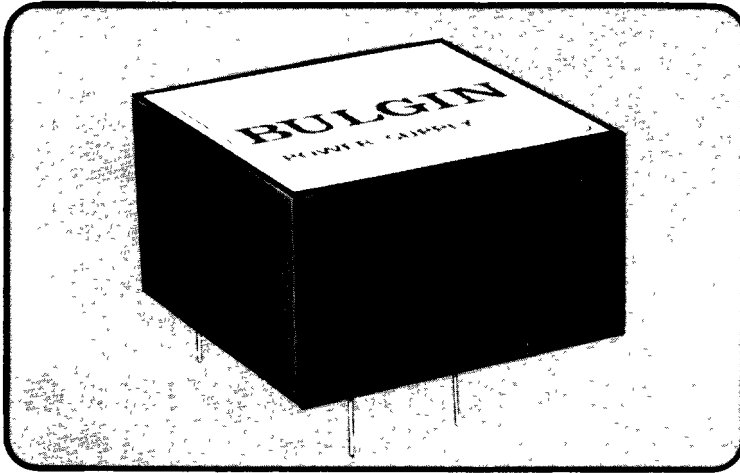
See overleaf for further versions.

Dimensions  
in mm.



| List No.  | Input Voltage Range | Input Frequency Range | Operating Temp. Range | Output Voltage | Output Current    | Output Ripple | Line Regulation | Load Regulation | Overvoltage Trip |
|-----------|---------------------|-----------------------|-----------------------|----------------|-------------------|---------------|-----------------|-----------------|------------------|
| EPS5/1000 | 210 - 250V<br>A C   | 47 - 63Hz             | -25°C<br>to<br>+ 70°C | 5V ± 0.2V      | 1A                | 4mV rms       | 0.5%            | 1%              | YES              |
| EPD12/250 |                     |                       |                       | ± 12V ± 0.5V   | 250mA<br>per rail | 2mV rms       |                 |                 | NO               |
| EPD15/200 |                     |                       |                       | ± 15V ± 0.6V   | 200mA<br>per rail |               |                 |                 |                  |

# Encapsulated Power Supplies

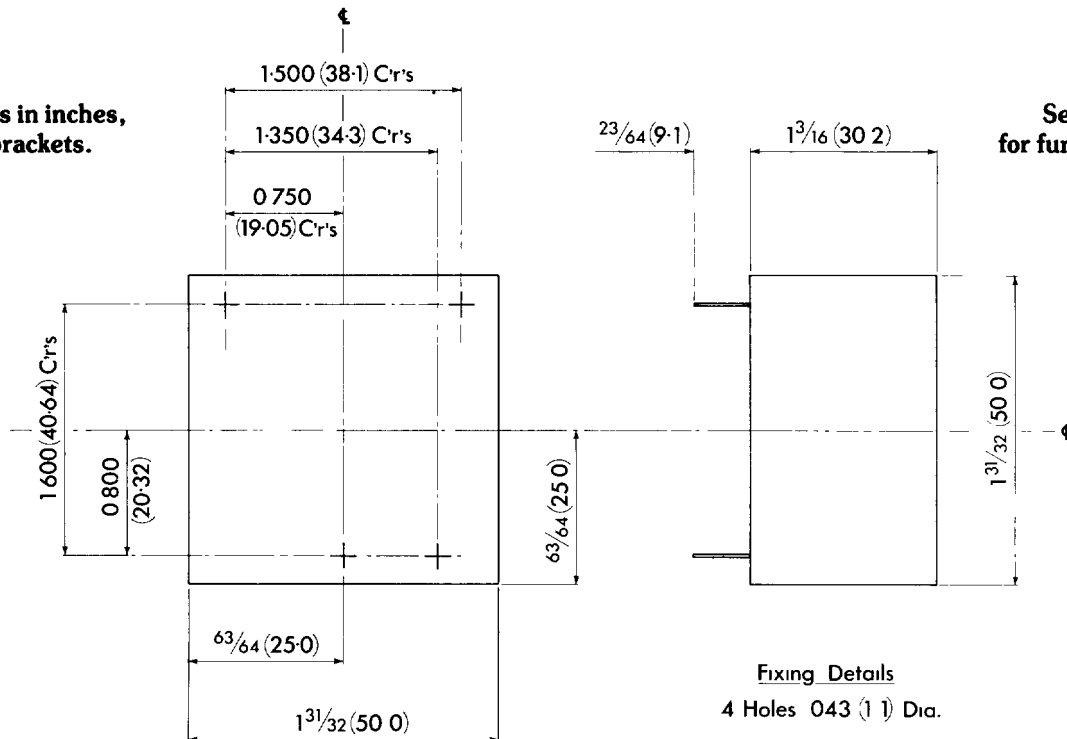


Precision output, overcurrent and reverse voltage protected, these power supplies are encapsulated in chemical resistant plastic and epoxy resin for long service. The input and output pins are on 0.1" centres for easy mounting onto printed circuit boards. The small size allows high packing density.

Current limit applies over the whole temperature range and overloads will cause the supply to close down to a trickle current. Removal of the overload allows the power supply to recover without further attention. This vital factor is top priority in applications where temporary faults might cause catastrophic failure to the equipment (e.g. medical apparatus, computing systems, safety monitoring apparatus etc).

The 12V. 100mA versions are designed for users of CMOS logic.

Dimensions in inches,  
mm in brackets.



Fixing Details  
4 Holes .043 (1.1) Dia.

| List No.   | Input Voltage Range | Input Frequency Range | Operating Temp. Range | Output Voltage      | Output Current    | Output Protection  | Output Ripple    | Line Regulation | Load Regulation |
|------------|---------------------|-----------------------|-----------------------|---------------------|-------------------|--|------------------|-----------------|-----------------|
| EPS5/200   | 210 - 250V. A.C     | 50 - 400Hz            | 0 -40°C               | 5,0V D C<br>± 5%    | 200mA<br>max cont | Continuous overcurrent protection, self recovering imposed reverse - polarity protection to 1A continuous. | 4mV pk - pk max. | 12mV            | 100mV           |
| EPSL5/200  | 110V. A C           |                       |                       |                     |                   |  |                  |                 |                 |
| EPS6/100   | 215 - 250V A C.     |                       |                       | 6,0V. D C.<br>± 5%  | 100mA<br>max cont |  |                  | 6mV.            | 60mV.           |
| EPS9/75    |                     |                       |                       | 9,0V D C.<br>± 3%   | 75mA<br>max. cont |  |                  |                 |                 |
| EPS12/100  |                     |                       |                       | 12,0V. D.C.<br>± 3% | 100mA<br>max cont |  |                  | 2mV.            | 1mV             |
| EPSL12/100 | 110V A C            |                       |                       |                     |                   |  |                  |                 |                 |