

MAINS VOLTAGE PROTECTOR

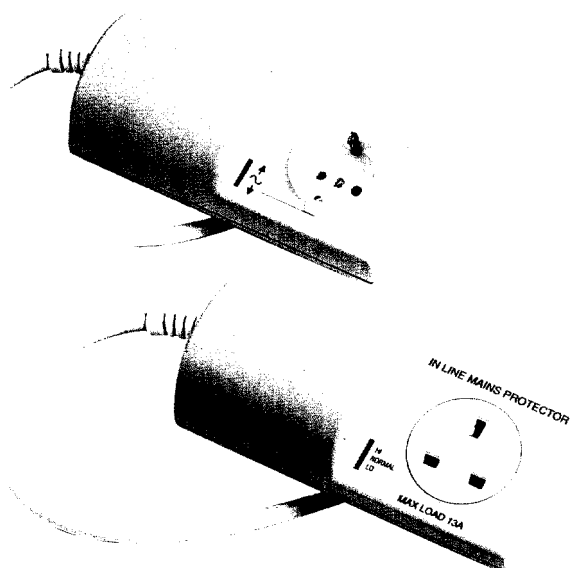
536-659.

CURRENT RATING: 13A (UK)
MIN/MAX INPUT VOLTAGE:
85V - 320V
OPERATING VOLTAGES:
240V/220V/110V (50-60 Hz RMS)

All electric and electronic equipment is designed with a level of tolerance to voltage fluctuations. Any significant changes outside these tolerances can lead to expensive equipment failure and downtime.

The Phase Two Mains Voltage Protector is designed to satisfy worldwide electricity supply line fluctuation problems.

The unit monitors the voltage from the incoming mains supply and automatically shields equipment from intolerable voltage changes.



Once the supply voltage returns to an acceptable level, the unit automatically resumes power to the protected equipment.

TYPICAL APPLICATIONS

- Office Equipment
- Computers
- Telecom Equipment
- Audio/Video Equipment
- Laboratory Equipment
- Industrial Electronics Equipment
- Domestic goods

COMMERCIAL ADVANTAGES

- Protects expensive and sensitive equipment
- High performance, low cost
- Simple 'In-line' installation
- Reduces equipment downtime and servicing costs
- Increased system reliability and efficiency

TECHNICAL ADVANTAGES

■ VOLTAGE PROTECTION

The unit's primary function is to monitor the incoming voltage and dependant on the nominal operating voltage automatically switch off the equipment it is protecting within the pre-set tolerance band.

The voltage differential from turn on to turn off is an inbuilt feature designed to prevent oscillation due to the unit's automatic power regulation.

Prevents premature burn-out of lamps, motors and power supplies, and offers extremely high attenuation performance.

■ MAINS FILTER

The MVP also has a mains filter incorporated into the design to reduce conducted noise and transient surges.

■ SATURATION

Magnetic Core Saturation of the MVP would not occur until three times the maximum rated current is applied. The transient energy absorption of the MVP is 1.5Kw.

■ TRANSIENT SUPPRESSION

Output pulse rise time is integrated to 5 times input. Output amplitude is less than 800V thus the equipment's power supply will be able to eliminate any residue of the original transient.

■ CASE CONSTRUCTION

Aesthetically pleasing compact modern design. The Phase Two MVP is made in a high impact UL 94V0 flame retardant grey plastic housing and comes complete with a 13A plug and fitting instructions. If volumes are required customers can have fascia with own screen printed design.

A set of coloured lights to indicate high, normal and low voltage modes.

■ VERSATILITY

Many International socket outlets are available including UK, German, French, USA etc.

Specific equipment match is possible, irrespective of the local plug or socket type.

Suits all requirements, from single socket use to multi office installation needs.

■ EXTENSIONS

A 'trailing socket' can be connected to the MVP outlet and provide cost effective protection to a number of pieces of equipment up to the rated capacity of the unit.

STANDARDS

The Phase Two Mains Voltage Protector is EN 60950 Health and Safety approved and also carries the CE mark.

REGULATIONS

Manufacturers of electrical/electronic products are recommended to comply with certain Radio Frequency Interference (R.F.I) regulations in the recently issued E.E.C. Harmonisation Programme and from January 1 1992 all electrical/electronic products made or sold in the United Kingdom must by law meet specific performance criteria with regard to Electro Magnetic Compatibility (EMC). This range of MAINS VOLTAGE PROTECTOR is designed to help our customers comply and to give a compactness and performance superior to other suppliers.



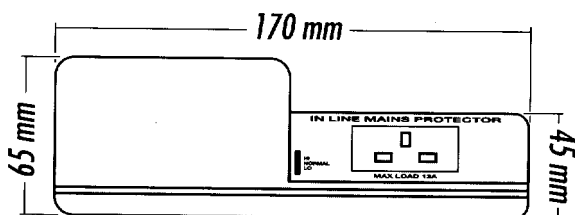
SPECIFICATION

Operating Voltage	240V AC
Max Input Voltage	320V AC
Min Input Voltage	85V AC
Max Load Current	13A
Line Frequency	50 - 60 Hz RMS
Typical Attenuation	40dB @ 1MHz
Transient Response Time	500 Nano - seconds (nS)
Max Transient Absorption	1.5KW
Pulse Integration	5:1
Peak Output Voltage (4KV Input)	800V
Case Construction	UL94V0 Flame Retardant Plastic
Colour	Grey
Cable Length	1.25 m
Standards	EN 60950, CE Marked
Dimensions	170mm x 65mm x 75mm

OPERATING MODES

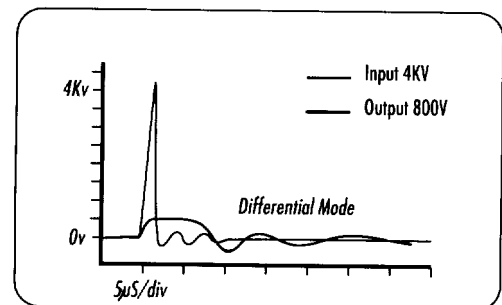
Nominal Operating Voltage	Power Off	Turn On	Turn On	Power Off
240v	285	275	215	205
220v	262	252	197	187
110v	130	125	100	95

DIMENSIONS

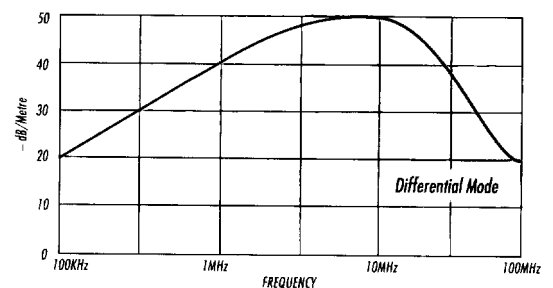


PERFORMANCE CHARACTERISTICS

TRANSIENT RESPONSE



INSERTION LOSS



ORDERING CODES

P2E/ ★ ★ ★ / ★ / MV / ★

AMP RATING (013 = 13A)

VOLTAGE
A = 110V B = 220V C = 240V

PRODUCT TYPE

TYPE OF SOCKET / PLUG CONNECTION
D = GERMANY E = SPAIN F = FRANCE
G = GREAT BRITAIN U = UNITED STATES

E.G. P2E/013/C/MV/G

In addition to the standard range of filters, Phase Two Electronics specialise in the design and manufacture of filters to suit your specific design requirements.

Due to continuous development Phase Two Electronics reserve the right to amend any information contained within this data sheet without prior notice.



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