All electronic equipment including computers need a secure and stable power source to function properly. AVRs are commonly used to cater for voltage fluctuations, spikes, electrical noise, power sags and surges found in the public utility power.

However, do you know that the ordinary AVRs currently available in the market need some "settle down" time to perform the voltage stabilisation function each time when switching on? The underlying reason is - stabilisation process only works upon obtaining feedback from output voltage and this might take up to 1 second during initial switching on. Any power irregularities in this little gap, unfortunately can be harmful enough to damage your electronic equipment or computers.

The **MicroMate®** D-Models with built-in restart delay, allocating sufficient time for initial stabilisation, can save the equipment against occurrence of inrush power surge during this crucial instant. Please refer to *Figure 1.0*.

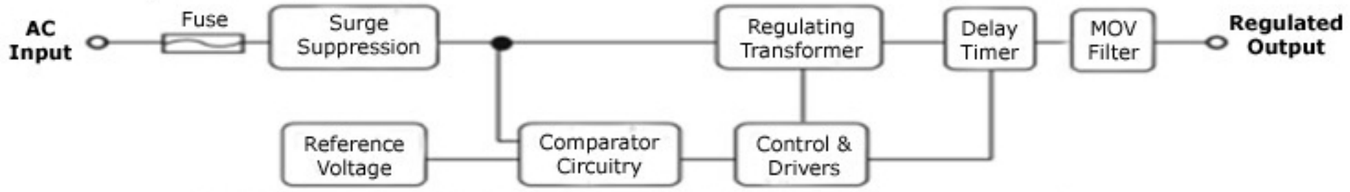

Figure 1.0 **MicroMate** D-Model AVR (**with Output Power-On-Delay**)

Why are the special features of the D-Models important?

Many of us leave computers or equipment switched on during periods when the power is off, not realising that the occurrence of an extremely high inrush surge normally accompanies the resumption of AC power. Some users also turn power on using their AVRs without knowing that many AVRs do not provide voltage stabilisation for the first moment. Consequently, the equipment is at a risk of breaking down and being seriously damaged.

With **MicroMate®** D-Models, you can prevent such disasters from happening. You don't have to worry about turning off your equipment or the AVR during power failures. This is because the AVR delays the power to the load when power resumes, bypassing any inrush surge power and allocating enough time for the initial stabilisation function. As such there will be less equipment maintenance, longer operational life and reduced down time.

TECHNICAL SPECIFICATIONS

Model	AVR-700D / 1000D	AVR-1500D / 2000D	AVR-3000D	AVR-4000D / 5000D	
Output VA Rating	700VA / 1KVA	1.5KVA / 2.0KVA	3KVA	4KVA / 5KVA	
Input Voltage Range	AC 230V ±20% (or AC 184V ~ AC 276V)				
Output Voltage	AC 230V (Nominal), 50Hz, Pure Sinewave with approx. 0% Distortion				
Output Regulation	± 7%	± 5%			
Overload capability (%)	150% for 10 minutes				
Configuration	Auto Transformer with Voltage Tapping				
Input Connection	Power cord (1.5 metre) with BS1363 Plug-top			Termination Blocks	
Output Connection	Two or Three BS1363 Switched Power Socket Outlet			Termination Blocks	
Efficiency	Above 95%				
Ambient & Humidity	Maximum 45 °C ambient temperature, 90% non-condensing				
Power Line Protection	EMI/RFI Noise Suppression Fused Over Current Protection MOV Surge Clamp with 15KA, 2 poles 8/20us Surge Rating Capability to withstand transient up to 6KV as defined by IEEE C62.41 for Category A3 Automatic Power-On-Delay for Output				
Weight	3.0KG / 4.0KG	4.5KG / 5.0KG	8.0KG	10.5KG	11.5KG
Dimensions WxHxD (mm	170 x 110 x 200	170 x 110 x 210	190 x 150 x 360	260 x 230 x 360	

MicroMate®

Automatic Voltage Regulators

* Due to the policy of continued product improvement, specifications are subject to change without natice.

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