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PowerHouse Distribution updates

This week we have an interesting news letter for you, from protection against the elements to crooked companies, this is definitely an exciting read.

We would also like to congratulate Mario on an order for an 80kVA UPS systems at the metropolitan employees benefit head office, well done Mario!

PHD has just received their second batch of printed catalogues, if any of our Live wire customers requires one, please feel free to contact Anthony by email at anthony@powerhoused.co.za or alternatively you can download our catalogues off the web site at www.powerhoused.co.za/index_files/catalogue.htm

We also have a few specials going at the moment on pure sinewave inverters, solar water pumps, diesel generators and wind turbines, for more information on these specials please contact Anthony by email at anthony@powerhoused.co.za



AEC UPS systems



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A play on words

A play on words, that's the topic for this article, quite appropriate as we are discussing how some companies are fudging their specs to confuse customers, we have noticed this problem mainly in the UPS and inverter fields for example, some companies are throwing the term **INLINE** around in reference to an **ONLINE** UPS systems, but on inspection of the UPS systems you will notice it is a line interactive unit, clever marketing, sales swindle or plain fraud, you decide!

We have listed the main UPS topologies here for your reference

Online double conversion

- Total protection
- Suitable for generator power
- Considered up-market
- Used for sophisticated equipment and servers

Line interactive

- Limited protection offered by internal AVR
- Not suitable for generators
- Used for basic back-up for PC,s and control equipment

Ferro resonant UPS systems (Not recommended)

- Out dated UPS topology
- Low efficiency
- Gives off lots of heat.

We recommend that before you purchase a UPS that you check to make sure that you are getting the correct equipment for the job you require, and remember you get what you pay for, so take time in making a decision.

For more information on UPS topologies please go to our web site www.powerhoused.co.za/index_files/HowToPage.htm



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CIRCUIT PROTECTION AGAINST THE ELEMENTS NOW MORE IMPORTANT THAN EVER BEFORE

For many years Engineers looked at lightning as the only reason for circuit and equipment protection but now there are many more elements to protect against says Warren Botten, Sales Manager of PHD international.

While lightning and surges from lightning remain important, instability in power supplies has become another serious issue to worry about. Engineers working in environments where the mains power comes from a small plant or own generator have learned hard lessons and are well versed against the dangers of spikes, under and over voltage and brownouts. With the utilities currently hard pressed to supply enough power to meet the demand, load shedding is likely to be the order of the day and with that comes many problems.

Considering surges from lightning, blackouts, brownouts, spikes and sags we are dealing with potentially dangerous conditions which can lead to damage of computer and other equipment even household appliances such as fridges and freezers. Over voltage is equally damaging as under voltage. Brownouts often occur after a power cut when power is restored and flickering occurs which is characterised by rapid under and over voltage spikes.

While technology has made so many advantages it has also brought with it new sensitivity to outside environments and the elements. The new micronised circuits are more sensitive and susceptible to varying power conditions and stray currents than the older more robust components.

Another fact to keep in mind is that minor damage by smaller surges may not render systems inoperable, but are accumulative and will lead to early breakdowns.

“PHD international believe that one should look at the total area of protection, even if lightning does not occur often in an area, it takes only one strike to cause huge damage. To ensure that the environment is protected against surges from lightning start looking at where the power comes into the premises. In many areas it is not law to have lightning arresters fitted on the incoming mains board. It is however a good start! While lightning activity is sporadic during the winter months, it can still occur, often when least expected,” Botten says

A comprehensive catalogue of protection devices and specialised systems is available online at www.powerhoused.co.za Lightning and surge protection is not an open and closed book. To be successful one would have to consider the uniqueness of each installation and design protection around it.

For the best advise and products around call PHD international @ +27 11 346 1812 or email info@powerhoused.co.za



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Volume 9

HOT SPECIALS

R 3 500.00 each (Ex-vat)

6kVA Diesel Generator

Type Single-cylinder, 4-stroke, air-cooled, direct-injection
Starting System Recoil/Electric Starter/Automatic Starter



2 + 3 kVA Inverter/Chargers



Pure sinewave inverter chargers, ideal for office and home use.

24 or 48 Volts

Large built in battery chargers, ideal for long runtimes

Internal AVR for surge protection

2kVA @ R 1 367.00 each (Ex-vat)

3kVA @ R 2 283.00 each (Ex-vat)



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Featured Product

Lightning & Surge Protector

Mains and phone line over voltage protection (PHD 101)

DESCRIPTION:

The protector is used to protect any electronic device connected to the telephone line including fax machines, answering machines, cordless telephones, modems and digital communications on alarm panels.

SPECIFICATIONS:

Max. continuous voltage : 275VAC 50Hz

Max. current : 16A

Max. discharge current : 10 000A, (8/20) (L-N, L-E, N-E)

Connectors : RJ11

Certifications : IEC 61000/4/5 : PE/2005\102

Indication 2 LEDS : Power on, Earth present

INSTALLATION:

PLUG AND PLAY. Simply connect the equipment and plug into the wall part no: PHD101 socket!

FEATURES:

- Power and data protection
- No additional earthing required
- Failsafe protection
- Protection status indication
- Fire hazard protection
- Easy installation

APPLICATIONS:

A high quality surge protection unit to protect your electronic equipment connected to your telephone line.



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