

Addressing the Clean conditioned reliable electric backup power requirement

Linear/1 Operating in line with an emergency Generator for medical applications.

NECEDAH, WISCONSIN, UNITED STATES, February 26, 2024 /EINPresswire.com/ -- [Linear/1](#) UPS and emergency generator

Many people in the medical arena feel that with a generator in the line as an emergency backup for when the electric power grid goes down that there is no need for UPS back up power or power conditioning. This is not true. What most people forget or just simply do not know are issues that should be of concern which are listed herein below.

- A generator will start up providing power only when the power grid goes down and stops providing electrical power.

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Linear/1 means reliable, consistent, safe electric power cleaned and conditioned provided from the power grid as well as battery backup power during those times when the power grid goes down.”

Tom Chudy

- o The generator will take 10 to 20 seconds to start in which time the critical medical equipment will in fact stop operating unless it has an internal backup power supply which is a small supply meant to keep the medical equipment in question going during this short 10 to 20 seconds or in the case that the generator for some reason does not start will help provide an orderly shutdown of the critical equipment. This small internal backup is also very dependent on the continuous need for good fresh batteries which this effort is easily forgotten. One more thing that one needs to keep in mind is that after the generator starts there is a transfer switch which transfers

the facility from the power grid to the generator. This transfer switch will always create a spike

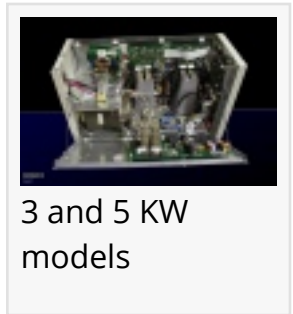
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The Linear/1 UPS manufactured by accratech, Inc. certified UL 60601-1, the Last word in perfect power providing safe conditioned, continuous electrical power for your professional medical team using sensitive critical medical equipment.



3 and 5 KW models

and like a lightning strike no one can predict where the spike will strike and many times will strike the critical medical equipment causing extensive damage at the most inopportune time. An additional item to consider with a generator is the “line noise” created by the armature/commutator when generating electricity. This noise can be very detrimental to sensitive critical medical equipment internal components such as circuit boards and components thereof.



□ With the Linear/1 UPS in the system the backup time is increased to 10 minutes or more depending on the load and the size of the UPS. The Linear/1 UPS is also a power conditioner that will filter out the spike created by the generators transfer switch, and the noise created by the generating of the electric power.

o One major element to keep in mind with an emergency generator in the line is that the generator will start up providing electric power only after power is lost from the power grid which is the only single purpose a generator serves.

□ With the Linear/1 UPS in the line monitoring the generator and the power grid continuously correcting power infractions as needed. One infraction is “sagging power” more commonly known to the general public as a “brown out”. During these times of sagging power which a generator does not address, critical medical equipment is struggling to operate on minimal input power which is creating stress on circuit boards eventually causing circuit board components to fail destroying the circuit board shutting down the equipment which could happen at a critical moment of operation in addition to the extreme cost of replacement.

Everyone that works in the medical arena on patients with sensitive critical equipment should note the justification for placing the Linear/1 UPS in the line with a generator. If you do not have a generator [Accratech](#) has battery cabinets available that when connected to the UPS will provide additional run time fulfilling the backup time requirements.

The Linear/1 UPS manufactured by Accratech, Inc. certified UL 60601-1, 3rd Edition, the Last word in perfect power providing safe conditioned, continuous electrical power for the professional medical team using sensitive critical medical equipment on patients that are expecting a perfect procedural outcome.

As a parting note; although the Linear/1 UPS is certified 60601-1 for medical applications does not limit the Linear to the medical arena only. As a high quality UPS for medical application that same quality will provide comfort when used in any application such as server support or supporting manufacturing equipment on the manufacturing facility floor.

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