



ANALYTIC SYSTEMS

Power Conversion Solutions

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HOW TO BEAT NEGATIVE ELECTRICAL SPIKES ON FORKLIFTS, ETC.

The operation of a motor control device, commonly used on forklifts, front end loaders, small utility vehicles utilizing thyristors, can cause a negative spike to be generated. Any electronics sharing a common power system can be affected by these negative spikes. If the DC/AC inverter or DC/DC voltage converter is not protected against reverse hook-up, these spikes can cause the inverter/converter to think it has been hooked up to the wrong polarity and cause its protection circuitry to shut the unit down. **Analytic Systems** has developed a modification to prevent these negative spikes from accidentally shutting down its power conversion units. This "fl" option will ensure that the device hooked up to our power conversion unit will continue to function regardless of the operation of the motor control device.

The forklift modification package was first developed for a large GE electric forklift application, years ago. The modification package is available on a variety of our DC/DC voltage converters and DC/DC battery chargers as well as our IPS Series of DC/AC inverters.

This modification is designed for mobile applications so **Analytic Systems** also has a variety of ruggedization options that can be combined with the "fl" option to protect against moisture, vibration, and heat/cold (-40C to +55C) as many of these vehicles work outside and sometimes in very rugged conditions.

Please find details on our website www.analyticsystems.com or call 1-800-668-3884 for information on the above units.

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