

UST

Utility Systems Technologies, Inc.
Sag Fighter[™]

Deep Voltage Sag Protection



Deep Voltage Sag Protection:

- Down to 30% remaining voltage
- Ultra-fast 2 ms response
- Unlimited sag correction time
- Meets SEMI F47-0706
- Without batteries
- Corrects phase shifting
- Very low O&M cost

For three phase application:

- Any voltage up to 600VAC
- 50 Hz • 60 Hz
- Compatible with all load types
- For all load power factors
- 99% energy efficient
- Very high load inrush capacity
- Small footprint

Quality Power. Better Business.



The Sag Fighter™ is shipped fully assembled and ready to operate for very easy installation



The Sag Fighter™ provides solid, affordable protection for sensitive equipment from deep voltage sags (dips) without batteries or energy storage. Available in sizes from small three phase applications up to complete facility protection, the Sag Fighter™ is compatible with all load types and power factors.

Ideal for those applications where UPS and energy storage devices are impractical or too costly, the Sag Fighter™ has no batteries or other parts to replace and requires no regularly scheduled maintenance or monitoring. The 99% electrical efficiency offers huge energy savings when compared to other sag correction products – especially for large-scale applications.

Since the Sag Fighter™ does not depend on stored energy; it provides sag protection for as long as the sag condition exists. Also, protection from consecutive deep voltage sag events is always available since the Sag Fighter™ is never offline to recharge or reset.

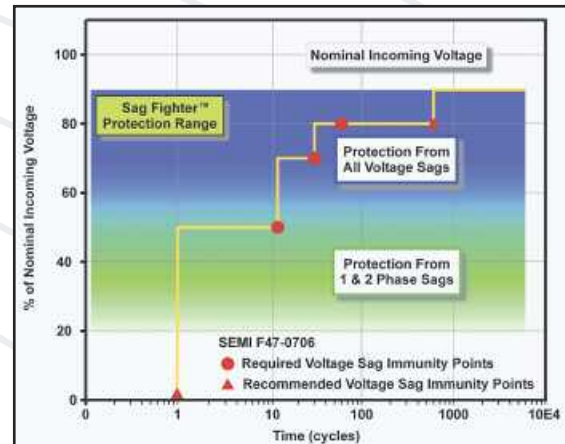
The Sag Fighter™ works simply by using additional current to create a properly shaped injection voltage to replace those portions of the voltage waveform that is missing during a sag event. The unit monitors the incoming voltage waveform for any deviation from normal and reacts to correct a sag when the voltage starts falling below 90% of nominal voltage.

Typical applications include:

- Manufacturing • Robotics
- Machining • CNC Processes
- Semiconductors • Plastics
- Textiles • Painting
- Industrial Automation
- Food Processing • Baking
- Printing • Continuous Processes
- Pulp & Paper • Batch Processes

The Sag Fighter™ difference:

- Corrects voltage sags back to 95+% of nominal voltage
- Corrects one or two phase sags down to 30% of remaining voltage
- Corrects three phase sags down to 60% of remaining voltage
- Provides a balanced, sinusoidal output
- Corrects phase shifting during sag events
- Provides correction for as long as the sag condition exists
- Uses no batteries or energy storage
- Always ready - No recharge or reset time required
- Low first cost and very low operating cost
- High Efficiency – 99%
- No scheduled maintenance



The Sag Fighter provides superior protection during long, deep sags and SEMI F47 compliance.



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