



# THE DYNAMIC DUO

## 1966

**Batman and Robin are among the most iconic duos of the baby boomer generation!**

On Jan. 12, 1966, the television series 'Batman,' based on the popular DC Comics, premiered on the ABC network and featured Adam West as Batman and Burt Ward as his sidekick Robin. If you don't recall, the series focuses on Batman and Robin as they defend Gotham City from its various criminals. The "Dynamic Duo" typically comes to the aid of the Gotham City Police Department when faced with a supervillain, whether it's The Joker, The Penguin or another foe.

While it lasted only 3 seasons, Batman held the record for the longest-running live-action superhero television series (in terms of episodes) until it was surpassed by Smallville in 2007.

## 2025

**There are few things that create more stress in the workplace than dealing with computer-based technology!**

Recent studies indicate that workplace stress is at an all-time high. Job stress is more strongly associated with health complaints than financial or family problems. Additionally, up to 65% of workers said that workplace stress had caused difficulties, and more than 10% described these as having major effects. Also, 60% of absenteeism was associated with stress in some ways in that survey. For those responsible for production, we find that among the most common causes of workplace stress is the pressure to perform to meet rising expectations, but with no increase in job satisfaction. This is especially the case in these times as there is this unparalleled pressure to work at optimum levels—all the time!

What part does

## QUALITY POWER play?

As computer processors have continued to evolve, they have become more complex. Meanwhile, so have the issues with random lockups, loss of synchronisation and other unexplainable "No Trouble Found" service calls. It is often thought that the PLC, VFD and related type controllers are a ruggedised industrial piece of equipment that barely requires a climatized environment, much less a quality electrical infrastructure suitable for a 21st century data centre. According to Automation.com, about 80% of PLC failures are a result of field devices, Input/Output (I/O) module failure or power supply issues. Typically, these defects manifest as a sudden process stop or irregular performance, because the PLC control system is waiting for a signal to allow it to step through its program sequence.

Research by PurePower® of Canada reveals that the "false" zero crossing (caused by internally generated switching transients) also causes "timing" issues and many circuits use the 50/60 Hz sine wave to time the turn-on of components (in a closed feedback loop) and these false crossings would cause random errors and resets. This is truly an "Aha" moment for so many in the tech world. These events are the primary cause of the "techno-stress" in the Industry 4.0 world! But there is hope...



**CP Automation**  
Keeping industry  
in motion



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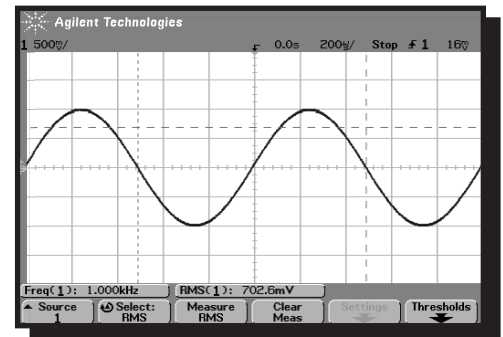
In 2004, SineTamer® was introduced to the world of surge protection devices. SineTamer is your “Dynamic Duo” in the midst of the ever-growing maze of technology that was intended to make life and business better, more productive and profitable. Surge protection is no longer an option, it’s a necessity.



## 4<sup>TH</sup> GENERATION TECHNOLOGY

Capitalising on the benefits of Industry 4.0 and all that it may offer requires a sure foundation. SineTamer® is that first step. Virtually all OEM's build in a simplified surge suppressor, typically a common MOV type device. The challenges arise when unexplained occurrences begin to plague the machine, and no one has an answer, since surge protection is “built-in”.

SineTamer® is not your common surge device. It is an engineered transient disturbance filter that is designed to monitor all 360° of the sine wave. According to numerous studies one of the predominant power quality issues involve loss of synchronisation of processes and unexplained reboots or resets. Many of these events are triggered by false zero crossings of the sine wave, which the typical surge arrestor can never prevent.



## THE DYNAMIC DUO KIT DTINX-PY

The DTI kit is made up of the DTI00 unit. This unit is the protection for the supply voltage feeding the control cabinet servos or VFD's. Each unit utilises our exclusive frequency attenuation network™ and is din rail mountable. The units are available in the following three wire delta voltages of 240 and 480.

The single-phase ST-PCMF units are available in AC and DC voltages. In AC the available voltages are 120, 240. The DC voltages are typically 24vdc but 12 and 48 are also available.

A data sheet with more complete specifications is available from our office or through one of our global partners.

**Do not wait another day to find techno-stress relief!**

**Get your life back!**

