

Sine-Wave Tracking

Transients can occur on any part of the AC voltage waveform, and can be induced on the positive or negative side of the wave. Surge Protection Devices that do not include **Sine-wave tracking** will allow larger transients to pass on to the critical loads, if a positive transient is induced on the negative portion of the power wave (or vice versa). In the example shown on Figure 1, the transient that was induced, caused a 570 Volt transient to pass on to the critical load.

Figure 1

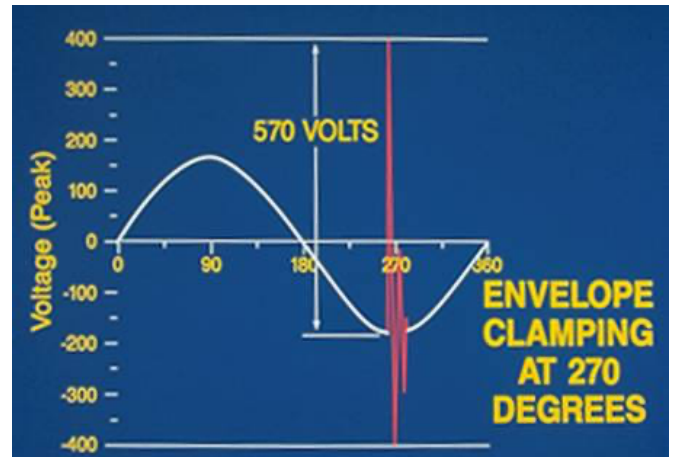
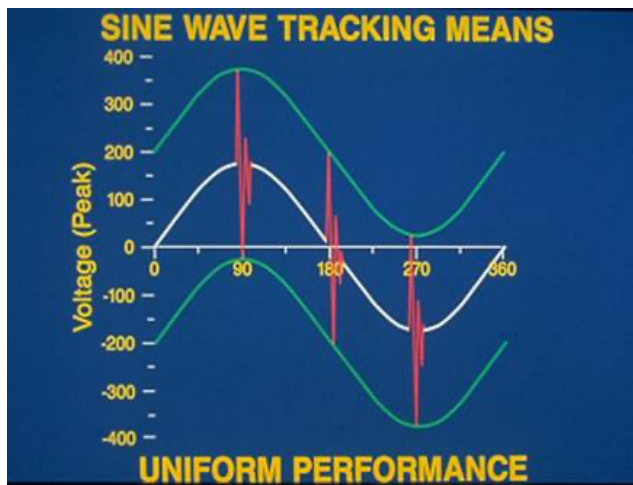


Figure 2



Surge Protection Devices with **Sine-wave tracking** technology provide complete attenuation at all points on the Sine Wave. This ensures a uniform performance independent of transient induction point on the voltage wave. See Figure 2.