QUESTION: What are the advantages of using modified sine wave products?

TECH DOCTOR: Modified sine wave products are initially more economical than true sine wave products. In addition, MSW inverters have the advantage when the load is a simple induction load like a motor, or a resistive load like a light bulb. MSW inverters easily fill this role and typically use DC more efficiently than their TSW counterparts. However, with today’s technological advancements and the rapid proliferation of sensitive electronics that require true sine wave power to operate correctly, operators often now prefer the TSW inverter in lieu of the more limited MSW inverter, particularly when it can now be purchased for roughly the same price.

QUESTION: How do I determine which power source is right for me?

TECH DOCTOR: To answer that question, you really must consider how you want to use your inverter.

The more complex or state-of-the-art your demand is, the more likely you will want and need to consider a TSW inverter. If, on the other hand, your demand is simple power and you have no aspirations of utilizing today’s sensitive electronic devices either now or in the future, a MSW inverter is the more economical choice.

SINE WAVE COMPARISONS

True sine wave (red) curves smoothly compared to a modified sine wave (blue)

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