

Solar Guitar™ Technical Assistance Request. Please refer to the patent link: <https://patents.google.com/patent/US20170011726A1/en?q=solar&q=guitar&oq=solar+guitar>

* The voltage, current, and power of the electricity generated by the Solar Guitar™ solar modules have to be allied to the built-in storage battery specifications in order to guarantee a fast and reliable charge. The voltage of the solar modules should be 1.5 times the voltage of the battery. This ensures efficient charging throughout the charge cycle. It is assumed that 60-70% of a panel's rated output can be stored in the battery as usable power. Getting that power out of the battery requires power, so 20% of that power is expected to be lost. Solar Guitar's™ power battery output is projected in a range between 5V and 24V. There are another solar module and battery embedded in Solar Case™. These two batteries can be combined for additional power. Solar Guitar™ can be charged while in its case by the Solar Case™ battery.

*The most efficient and durable solar modules that will perform the best with Solar Guitar™ have to be researched and validated. The main module in the back of the guitar can be opened for a fast charge while serving as a Solar Guitar™ support stand. The patented solar module's installment technics and panel/battery efficiency parameters can be applied to keyboards, drums, amps, flashlights, backpacks, or any other consumer product that needs an independent source of energy.

*The Solar Guitar™ patented technics for solar module

installation into the 3D printed/molded HempStone body of Solar Guitar™ have to be tested and validated. “Why hemp? The permanent transition from impact sound into airborne sound is essential to the sound. That’s how resonances are formed. This makes Hemp-stone® the perfect three- dimensional molding material for musical instruments. The material consists of 100% hemp fibers and contains no plastics, which would close these resonance-gaps.” [https:// www.guitar-list.com/news-story/hemp-guitar](https://www.guitar-list.com/news-story/hemp-guitar)

This technology saves millions of trees traditionally used in guitar manufacturing. *The Solar Guitar™ electrical diagram has to be tested and validated.

*The techniques for Solar Guitar™ hemp plastic body molding, 3D printing possibilities, and optimization for manufacturing need to be researched and validated.

*The Solar Case™ prototype has to be made from durable hemp fabric with the solar modules and battery installed.