

### **Converter Box**

The power supply shall be a Sapling Converter Box. It shall have a 24 volt, 150 watt, Direct Current (DC) power supply. It shall be powered by 115 volts or 230 volts on an Alternating Current (AC). The input for the Converter Box shall be either Sapling's proprietary RS485 protocol or a two wire digital communication system, but not both simultaneously. The output from the Converter Box shall use only two (2) wires and be in the form of Sapling's 2-Wire Communication protocol. The output of the power supply shall be 5.5 amps at 24 volts, DC. It shall be capable of providing power to Sapling's 24 volt SAM analog and 24 SBD volt digital clocks. The converter box shall be able to detect when it is too close to the maximum load capacity or the temperature threshold and reset itself. It shall have LED indicators on the front of the case, which shall indicate if the load capacity or temperature limits have been exceeded. The Converter Box shall have three sets of outputs and a slim, metal housing. It shall be UL and cUL listed.