

# Power Supplies & Battery Chargers

## Some ideas about powering your light tester.

Square Wheel Industries is pleased to offer the following alternatives for powering your *Scanner*, *Checkmate 1200 and 1200-A*, and *RVCHECK* model light testers.



➤ Order #01960

**The 6 amp Deltran Battery Tender** is perfect for charging through your tester's 7-pole plug or, because it's so small, install it right inside your tester's carrier along with a battery.

This is a versatile setup. You could leave your light tester plugged in all day and use it *as if* it has a 120 volt power converter – yet you still have the option of unplugging the unit from the wall anytime you want and using battery power alone if you need to carry your light tester elsewhere.

The *Deltran Battery Tender* has an automatic three-step charging process: bulk charging, finishing, and storage. The *Deltran Battery Tender* will not overcharge your battery, even if left connected 24/7. It's electronically protected against short circuits, overloads, even reversed polarity. It simply will not allow itself to get hurt! Never attempt to power your light tester using this charger all by itself though as it's not big enough. When in operation this unit, together with a battery, has a duty cycle of about 50%. That means if you use your tester continuously for three hours, your battery would need three hours of "off time" for the *Deltran Battery Tender* "to catch up" and return your battery to full charge. The new LED trailer lighting equipment draws only about 1/6<sup>th</sup> as much current as their equivalent incandescent lamps, so when testing LED equipped trailers duty cycle is 100%. The *Deltran Battery Tender* is ABS friendly, weatherproof, vibration proof, and comes with a handy quick-disconnect pigtail.



➤ Order #01963

**The IOTA DLS-30 Power Supply** is larger and more expensive, but does not require a battery. It requires access to 120 volts and is capable of a 100% duty cycle.

This power supply is rated at 30 amps and, like the Deltran unit, is electronically protected against damage from short circuits, etc. It provides the smooth, conditioned power that is required to test ABS systems, and it can be used as a battery charger; but the IOTA unit lacks a "storage" mode and may overcharge if left connected to a battery too long. The IOTA unit can mount right inside your light tester's carrier or, for safety, can be remotely mounted, such as on a wall, and connected to your light tester via a low-voltage cable.

This is a great set-up for applications where portability is not an issue, such as in a trailer assembly plant. With the power supply remotely mounted, any shock hazard is eliminated. **This unit is not weatherproof** and is not intended for use with the *Express Garage* or the *Express Mobile* models.