

# ELK INDUSTRIES DATA SHEET

## TRANSFORMERLESS BATTERY CHARGER



### MODEL 60

#### **SPECIFICATIONS-**

INPUT VOLTAGE ..... 110 Volts, AC, 50-60 Hz  
Output Voltage Range .... 6 Volts to 48 Volts  
Output Adjustment ..... Provided by a DIAL, & LED  
Peak OUTPUT Current ..... 80 Amps, per Pulse  
Pulse repetition Rate ... 60 Pulses per Second  
Enclosure size ..... 4" x 4" x 3" (overall)  
Weight; Typical ..... 4.5 lbs.

#### **DESCRIPTION-**

The [MODEL 60 TRANSFORMERLESS BATTERY CHARGERS](#) Provide the Ultimate in Advanced Battery Charging Technology. It is a VERY Lightweight, compact, Rugged and Reliable Product. We (still) have Units in Use by Customers after (over) 20 Years of Using the Chargers! A [U.S. Patent No. 4,774,449](#) was issued for this Invention; all of which relate to Novel, Innovative, Helpful, "High - Tech" Features, including the Patenting of the Battery Charger Waveform, itself.

You see, this Battery Charger, which was (initially) developed for the Electric Vehicle Market, provides the [Ideal Battery Charging Waveform](#), in order to ensure that [there is more of a charge delivered, per unit time, without Harmful Continuous Charging Currents](#), such as would be obtained from a "Standard"(Continuous) type Battery Charger, Instead, the [MODEL 60](#) Charger uses a Unique Series of High Energy, Short Duration, Repetitive Pulses to Charge the Battery with little or NO (Unwanted) Thermal Effects, as are Produced by "Standard" Battery Charging Circuits, because they Use Continuous Currents to Charge the Battery (which "Cooks" the Battery, in many instances), often resulting in Thermal Damage to the Battery.

This Extraordinary Technology allows the **MODEL 60** Transformerless Battery Charger to “Go Places” that No Other Battery Charger with anywhere near it's Features and Benefits can Go, or “Fit”. There is a BIG MESSAGE HERE – Because the Battery Charging Technology is so Lightweight, “Dramatically” LESS of Our (Precious) Natural Resources and Fuels and Energy are Used to Make and Ship the PRODUCT! ...Just think of How Many “Train Loads” of Heavy, Bulky, Transformers – *which Use an Abundance of COPPER and STEEL, We Could SAVE*, by Using This **MODEL 60** Transformerless Battery Charger Technology! The Positive Environmental Impact of Using the **MODEL 60** Transformerless Battery Charger is Enormous!

Another “Breakthrough” associated with this Advanced Technology, is that some Users of the **MODEL 60** Transformerless Battery Charger have noticed a Reduction, or even Elimination of (undesireable) “Sulfadization” within the Battery by Using Our Chargers. We have witnessed, on several occasions, that the Lead Sulfides (Harmful to the Battery Life) often “Shake Loose” when exposed to the Repetitive Charge Pulses With this Amazing, Patented, **MODEL 60** Transformerless Battery Charging Technology.

Typically, You will Experience a Shorter Charge Time with Our **MODEL 60** Transformerless Battery Chargers, Even when compared to Very Large and “Heavy Duty” Battery chargers. The Difference varies with the type of Charger, however, it is usually 10 – 15% LESS Charge time when using the **MODEL 60** Charger.

We conducted Many TESTS, where Vehicle Headlights or other Lights, for example, were “Left ON, Intentionally” to Discharge the Battery until the Vehicle Would NOT Start. Then, we connected, and Charged the Discharged Vehicle's Battery with the **MODEL 60** Transformerless Battery Charger. Invariably, the Vehicle “Stared Right Up”, after ONLY 10 – 15 Minutes of receiving the Battery Charge using Our **MODEL 60** Transformerless Battery Charger!

There have been Hundreds of these **MODEL 60** Transformerless Battery Chargers Sold, all of which were built the Same Way, Since 1988. Many People STILL USE THEM after 20 Years!

These Battery Chargers are Very Easy to USE – just Turn the Knob Until the LED Lights Up, and then it is Operating at the Proper Charge Rate.



**ELK INDUSTRIES, LLC.**  
221 WEST HIBISCUS BLVD.  
MELBOURNE, FLORIDA 32901  
Phone: 321 259-8114  
Fax: 321 723-2739  
email: [LASEROB@aol.com](mailto:LASEROB@aol.com)  
URL: [www.elkindustries.com](http://www.elkindustries.com)

