**Why NetGain?**

**INSULATION**
Class "H" insulation is used throughout the motor.

**COMMUTATOR**
The commutator bars are securely attached to the arbor.

**DRIVE END SHAFT**
The drive end shaft is bored for a pilot bearing and drilled & tapped for a 5/16 - 18 bolt.

**TAIL SHAFT**
The commutator end shaft also has a 3/8 - 16 bolt hole to mount tach sensors or secure couplers and accessories.

**FANS**
Our improved fans offer up to 50% greater air flow than conventional paddle style fans.

**BIGGER IS BETTER**
Most manufacturers use 3/8” terminal studs. Our WarP 9 motors use 1/2” terminal studs. Which would you prefer?

**Dual Wafer Helwig Carbon Brushes:**
Extra large brushes are designed for the high voltages and currents used by today’s electric vehicles. Our motors use specially formulated, high performance brushes manufactured exclusively for our motors by Helwig Carbon. The split brush design offers longer brush life and better commutation. Four wires go into each high performance brush (two per wafer) versus the more common single wire per brush.

**Specifications:**
- **Type:** Series wound DC
- **Diameter:** 11.45"
- **Length:** 17.027” (face-face)
- **Weight:** 233 lbs.
- **HP:** 32 (Continuous @ 144V)
- **RPM:** 5,800
- **Torque:** 135 lbs.-ft. @ 450 Amps
- **Shaft:** Turbo 400, 32 Tooth Splined
- **Timing:** Favored or neutral (User selectable)
- **Brushes:** Dual wafer Helwig Carbon Red top
- **Insulation:** Class “H”
- **Terminal Studs:** 1/2”
- **Fan:** High efficiency 15 blade
- **Delivery:** Stock

**TransWarP 11™**

**Available from:**

Manufactured Exclusively For:
**NetGain Motors, Inc.**
800 South State Street – Suite 4
Lockport, IL 60441
630-243-9100
www.go-ev.com
Since 1998
Our motors are the preferred choice for electric vehicle conversions. We offer the greatest value for your money, as well as:

- Unparalleled support
- Unparalleled performance
- Unparalleled durability