



## Curtis 1238-6501 HPEVS AC-12 Brushless AC Motor Kit - 72 Volt



### Overview

The AC-12 is an AC motor that operates at 48-80V. It can draw up to 550A producing up to 37 HP (28 kW) and 86 ft-lbs (117 Nm) of torque. This kit works very well in small, lightweight applications such as small boats, dirt bikes, ATVs, golf carts, kei cars and microcars. Features include regenerative braking as well as an idle function. At 72 volts, it makes a safer low voltage system that will give you lots of reliable EV miles.

#### Quick Specs

- **Weight: 85 lbs**
- **Motor Case Length: 10.9"**
- **Motor Type: AC Induction Brushless**
- **Max Voltage Input: 80V**
- **Rated Torque: 86 ft lbs**
- **Rated Horsepower: 37 HP**
- **Max RPM: 10,000**

#### Kit Contents

- **HPEVS AC12 Motor**
- **Curtis 1238-6501 Controller**
- **35 Pin Connector and Wire Harness**
- **12 Volt HV Relay**
- **Curtis 840 Dash Gauge**
- **SPST Menu Button**
- **SPST Mode Switch**

# Specifications – Curtis 1238-6501 HPEVS AC-12 Brushless AC Motor Kit - 72 Volt

- **Motor Face:** C-Face
- **Motor Diameter:** 7.132 Inches
- **Motor Case Length:** 10.9 Inches
- **Motor Shaft Length:** 2.0 Inches
- **Motor Shaft to End Length:** 14.8 Inches
- **Motor Type:** AC Induction Brushless
- **Weight:** 50 lbs
- **Max Voltage Input:** 80
- **Terminal Stud Size:** 5/16 Inch
- **Integrated Sensors:** Encoder and Temperature
- **Rated Torque:** 86 Lb Ft
- **Rated Power:** 37 HP
- **Max RPM:** 10,000
- **RPM Sensor:** Yes
- **Drive End Shaft:** 1-1/8 Inch with 1/4 Inch Keyway
- **Accessory End Shaft:** Optional 7/8 Inch with 3/16 keyway
- **Max Efficiency:** 0.92
- **Thermal Cooling:** Internal Fan
- **Max Temperature:** 180 Degrees Celsius

