### Hartzell Engine Tech. Alternators

#### Hartzell Engine Technologies ES4020 Series Alternators - Factory New

Chrysler Style - FAA/PMA Approved Proven, Tested, & Trusted. As the OEM, Hartzell Engine Technologies offers factory new alternators engineered specifically to meet the challenges and increased demands of today’s aircraft electrical systems. Each unit is aviation designed & developed, no automotive parts used. For decades these alternators have been powering Lycoming/Continental engines with unmatched performance and reliability.

![Image](image_url)

<table>
<thead>
<tr>
<th>Volts/Amps</th>
<th>Description</th>
<th>Model No.</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>24V/85A</td>
<td>Belt Driven</td>
<td>ES4024</td>
<td>08-15666</td>
<td>$952.00</td>
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#### Hartzell Engine Technologies ES-6012-6 Alternator - Factory New

ES-6012-6 - 12V/80A Belt Driven alternator created for six-cylinder Continental engines. This unit is based on the highly reliable, field proven 100A ES-10024 and extensive certification testing has demonstrated a marked increase in efficiency and performance compared to the legacy Continental Crittenden unit it replaces. Aside from the improvement in reliability, two additional advantages offered by this alternator is that owner/pilots will really appreciate are improvements both in cut-in and idle speed performance – with over double the power output at idle!

Benefits of the new HET ES-6012-6 alternator include:
- Dramatically increased reliability and estimated MTBF compared to legacy Crittenden alternators
- Overall efficiency increased by six to 10% over the entire operating range, resulting in lower operating temperatures

P/N 08-15659 .............................................................. $790.00

#### Hartzell Engine Technologies ES-6024D Alternator

This unit is based on the highly reliable, field proven 100A ES-10024 and extensive certification testing has demonstrated a marked increase in efficiency and performance compared to the legacy Continental Crittenden unit it replaces. Aside from the improvement in reliability, two additional advantages offered by this alternator is that owner/pilots will really appreciate are improvements both in cut-in and idle speed performance – with over double the power output at idle!

Benefits of the new HET ES-6024D alternator include:
- Dramatically increased reliability and estimated MTBF compared to legacy Crittenden alternators
- Overall efficiency increased by six to 10% over the entire operating range, resulting in lower operating temperatures
- Output at engine idle speed more than doubled to ~23A

The ES-6024D alternator has been FAA PMA certified as a direct replacement for the 60A Continental Crittenden alternator on Continental -520 and -550 series engines. It replaces Continental alternator models 646843, 646490, and 642055 found on various twin Cessnas, Beechcraft Bonanzas and Barons, early pre-glass panel Cirrus SR-22s, and the Cessna TTx-series aircraft including early Corvalis and Columbia models.

P/N 07-18097 .............................................................. $1,139.00

#### Hartzell Engine Technologies ES-10024 Aircraft Alternator - Factory New

Introducing the brand new ES-10024 28volt / 100amp aircraft alternator. The ES-10024 alternator is a direct replacement for TCM part number 656802. The ES-10024 is a field proven design that has been in use for over 5 years with thousands of alternators operating on the world’s top selling aircraft. Prestolite Style - FAA/PMA Approved. Lightweight, cost effective, 2 yr. warranty.

<table>
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<tr>
<th>Model Number</th>
<th>Volt/Amp</th>
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#### Hartzell Brush Holder Assembly

Hartzell has designed a new two piece brush holder which is superior in construction and designed to ease both installation and removal during routine maintenance. These new brush holders are offered as a product improvement and are considered an alternate but will supersede the current brush holder assembly as field stock is depleted.

Recommended Alternators: Any aircraft utilizing ALE, ALH, ALT, ALU, ALX, ALY and ALZ series alternators.

P/N 08-13833 .......... $102.75

#### Alternator Drive Couplings

Overhauled alternator drive couplings for the gear driven TCM alternators.

Additional core charge added to purchase at time of checkout

Part No. 646655R
Applicable to engine models: IO-520, TS10-520, 10-550, GT510-520
P/N 07-00641.............. $575.00

Part No. 635796R
Applicable to engine models: C-75, C-85, C-90, C-115, C-125, C-145, E-165, E-185, E-225, O-200, O-300, GO-300, GIO-300, IO-240, IO-360, TS10-360, & LTS10-360
P/N 07-00642.............. $575.00

### Website

[WWW.AIRCRAFTSPRUCE.COM](http://WWW.AIRCRAFTSPRUCE.COM)