

# 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.

Volts/Amps	Description	Model No.	Part No.	Price
24V/85A	Belt Driven	ES-4024LP	08-15656	<b>\$1,221.00</b>
24V/85A	Belt Driven	ES-4024LP-2	08-15657	<b>\$1,321.00</b>
24V/85A	Belt Driven	ES-4024LP-3	08-15658	<b>\$1,259.00</b>



## HARTZELL ENGINE TECHNOLOGIES ES-6012-6 ALTERNATOR - FACTORY NEW

ES-6012-6 - 12V/60A 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..... **\$1,023.00**

## 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..... **\$1,564.00**

## 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.

Model Number	Volt/Amp	Drive	Replaces	Part Number	Price
ES-10024V-2	24V/100A	--	--	08-15651	<b>\$1,663.00</b>
ES-10024B-6	24V/100A	Belt Driven	Piper 651-756	08-15652	<b>\$1,676.00</b>



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## 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, GTS10-520 ..... P/N 07-00641 ..... **\$699.00**

**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 ..... **\$699.00**



## HARTZELL FAA/PMA BRUSH SETS

Mfr. Part No.	Description	Part No.	Price
ALE-1013AS	Hartzell Brush Set	07-00963	<b>\$34.75</b>
10-1020	Hartzell Carbon Brush Set	07-02713	<b>\$37.75</b>
ALE-1012AS	Hartzell Brush Set	07-03221	<b>\$41.50</b>
ALV-1012S	Brush Set Package	07-03225	<b>\$98.95</b>
MBG-2012CS	Hartzell Brush Set	07-03369	<b>\$196.75</b>
MHB-2012AS	Hartzell Brush Set	07-03372	<b>\$76.85</b>
MHD-2012S	Hartzell Brush Set	07-03376	<b>\$133.80</b>
ALE-2013AS	Carbon Brush Set	07-18138	<b>\$38.75</b>
ALE-1012NS	Brush Set Package	07-18257	<b>\$29.50</b>
90-2526	Hartzell Brush Set	07-18766	<b>\$57.80</b>
MBG-2012BS	Hartzell Brush Set	07-18804	<b>\$34.50</b>

Mfr. Part No.	Description	Part No.	Price
AMA-19S	Prestolite Brush Set	07-20460	<b>\$41.90</b>
ALV-1015S	Hartzell Brush Holder	07-24501	<b>\$20.60</b>
10-9000S	Hartzell Brushes	07-24506	<b>\$46.95</b>
15-5005S	Hartzell Brush Holder Assy	07-24512	<b>\$102.75</b>
11-1013S	Hartzell Brush Holder, 14v	07-24519	<b>\$221.95</b>
ES646348	Hartzell Brush, Str Positive	07-24694	<b>\$18.50</b>
40D1542S	Hartzell Brush	07-24725	<b>\$223.95</b>
90E53-1S	Hartzell Brush	07-24808	<b>\$40.65</b>
7025480001S	Hartzell Brush Assembly	07-24812	<b>\$43.50</b>
7024512001S	Hartzell Brush Piece Pt Pkg	07-24830	<b>\$76.75</b>
ALU-3045BS	Hartzell Brush Assembly	08-13833	<b>\$143.75</b>

CORE CHARGES APPLY TO ALL NEW AND OVERHAULED HARTZELL UNITS.