

TOYOTA 7GR-FKS

3.5L
Gasoline

SBC-T3.5P-250XP
SBC-T3.5P-270XP
SBC-T3.5P-350XP
SBC-T3.5P-390XP

The **OEM alternators** for the Toyota 7GR-FKS (3.5L gasoline) are rated up to 150 Amps & only produce 90 Amps at idle.

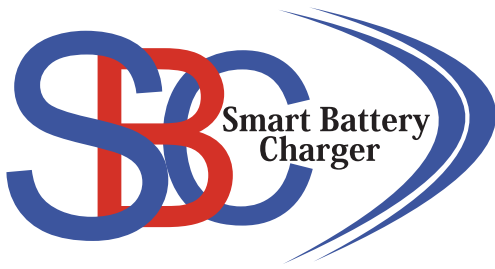
The **SBC heavy-duty alternators** generate a maximum of **250-390 Amps** at normal driving speeds & 185-220 Amps at idle, depending on the alternator model.

SBC alternators are designed & manufactured in the **USA** from Aircraft-Grade 6061 aluminum for maximum strength & heat dissipation. The alternators feature a larger housing while still retaining OEM fitment without any modification required.



The **XP series** of SBC alternators are assembled using DENSO components and produce the **highest output** at low RPM. Each alternator is supplied with a precision-machine, hard-anodized pulley made from Aircraft Certified 7075 aluminum for maximum durability & performance.





XP-SERIES

**250-390 Amps
12 Volts**

Technology

This sophisticated charging system features an advanced proprietary stator winding that maximizes efficiency with nearly 80 % sectional density of the winding coupled with very low coil resistance. This gives the alternator maximum low speed output as well as a 90 % reduction of magnetic pulsation. The stator windings are built in a cancel circuit to minimize electrical noise. The internal regulator is a proprietary design, advanced multifunction digital regulator that completely integrates into a vehicle's PCM through the OEM wiring harness retaining all vehicle specific functions such as internal temperature compensation, lamp terminal monitoring, load response control, & alternator load factoring.

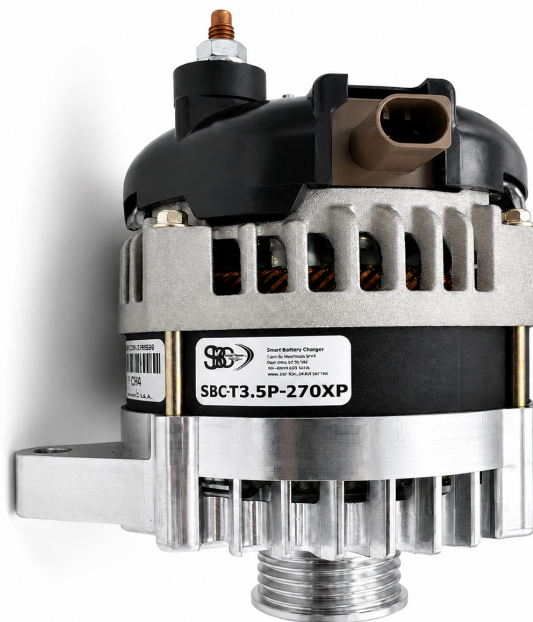
The rectifier is mounted on-board the alternator & consists of twelve 40 Amp press-fit diodes. The brush holder assembly & slip ring are environmentally protected & the bearings & premium, heavy-duty high RPM, & oversized.

The alternator housing is precision-machined aluminium.

All components exceed OEM or Military specifications & are selected for maximum performance & reliability.

Durability

The supplied XP alternator is manufactured to the highest quality standards. It is designed & manufactured in the USA using only components made in the USA or Japan. All parts are carefully chosen & used for their durability, dependability & proven performance in the field.



Mounting

All XP series alternators are specially designed to fit directly in the OEM mounting location with no modification. All electrical connections also retain OEM fitment & remain in original locations.

The alternator features a custom machined drive pulley that is 5 % smaller than the OEM diameter for increased idle output while retaining OEM belt length.

The pulley is precision CNC 7075 aluminium & has a 0.002 hard anodized coating for increased wear resistance and durability.

