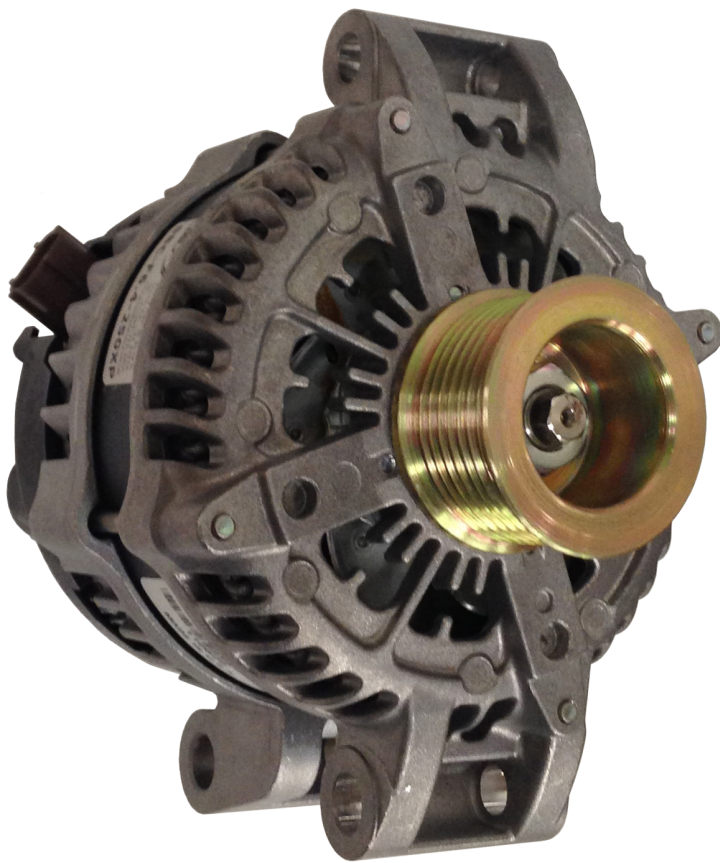


FORD POWERSTROKE **6.7L Diesel**



390 Amp

**HIGH
OUTPUT
ALTERNATOR**

**SPECIFICATION
SHEET**

SBC-F6.7-390XP

SMART BATTERY CHARGER

17779 Main Street Suite C
Irvine, CA 92614

Tel: +1 (949) 333-3800

Fax: +1 (949) 333-3804

www.SmartBatteryCharger.net

DESCRIPTION

This SBC high-output alternator is designed from the ground up specifically for the Ford 6.7L PowerStroke Diesel engine. It is built to supply ample voltage and amperage for high-draw charging systems in vehicles operating in harsh environments. This system consists of an internally regulated 390 amp alternator. The alternator produces a maximum of 390 amps and a minimum of 220 amps at low idle speeds. Maximum output is achieved above 1000 engine RPM. The alternator has a maximum efficiency in excess of 75 percent. All SBC alternators are completely manufactured in the USA using components from the USA or Japan. They are chosen for their durability, dependability and unrivalled, proven performance.

TECHNOLOGY

This sophisticated charging system features a newly designed, advanced proprietary stator winding that maximizes efficiency with nearly 80 percent sectional density of the winding coupled with very low coil resistance. This gives the alternator maximum low speed output as well as a 90 percent 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, and alternator load factor.

The rectifier is mounted on-board the alternator and consists of twelve 40 Amp press-fit diodes. The brush holder assembly and slip ring are environmentally protected and the bearings are premium, heavy-duty and oversized. The alternator housings are precision-machined, cast aluminium. All components exceed OEM or Military specifications and are selected for maximum performance and reliability.

MOUNTING

The alternator is specially designed to fit directly in the OEM mounting location with no modification. All electrical connections also retain OEM fitment and remain in original locations. The alternator features a custom machined drive pulley that is 5 percent smaller than the OEM diameter for increased idle output while retaining OEM belt length. The pulley is precision CNC 6061T6 aluminium and has a .002 hard anodized coating for wear resistance and durability.

Smart Battery Charger

17779 Main St Suite C, Irvine, CA 92614
Tel: +1 (949) 333-3800 Fax: +1 (949) 333-3804
www.SmartBatteryCharger.net



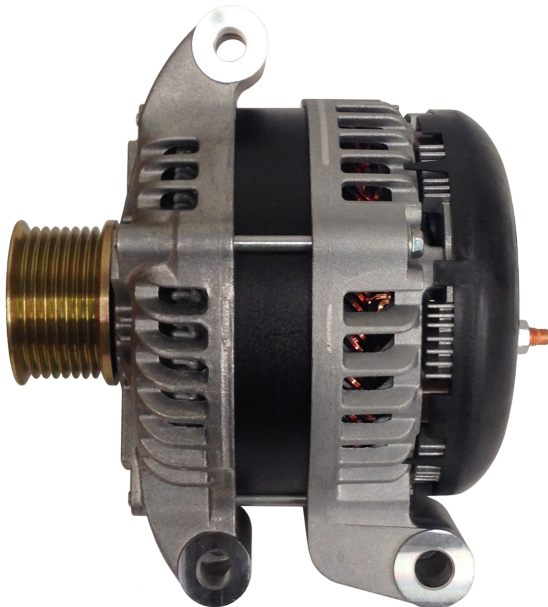
ALTERNATOR PERFORMANCE & VEHICLE DEMAND

The Ford OEM alternator for the 6.7L PowerStroke engine is rated at 135 amps and produces 80 amps at engine idle. Engine idle is ~650 RPM without A/C on and ~750 RPM with the A/C running. This SBC alternator generates 220 amps at normal engine idle and ~235 amps with the A/C running. The vehicle needs a maximum of 95 amps to supply existing electrical loads with all accessories on leaving little room for additional accessories. The supplied alternator will supply an additional 140 amps of available output at idle and up to 255 amps at highway speeds.

Engine Speed	Vehicle Demand	OEM Alternator <i>Remaining Output With All OEM Loads</i>	SBC Alternator <i>Remaining Output With All OEM Loads</i>
650 RPM <i>Idle A/C Off</i>	70 Amps	10 Amps	150 Amps
750 RPM <i>Idle A/C On</i>	80 Amps	10 Amps	155 Amps
Normal Driving	95 Amps	40 Amps	295 Amps

DURABILITY

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

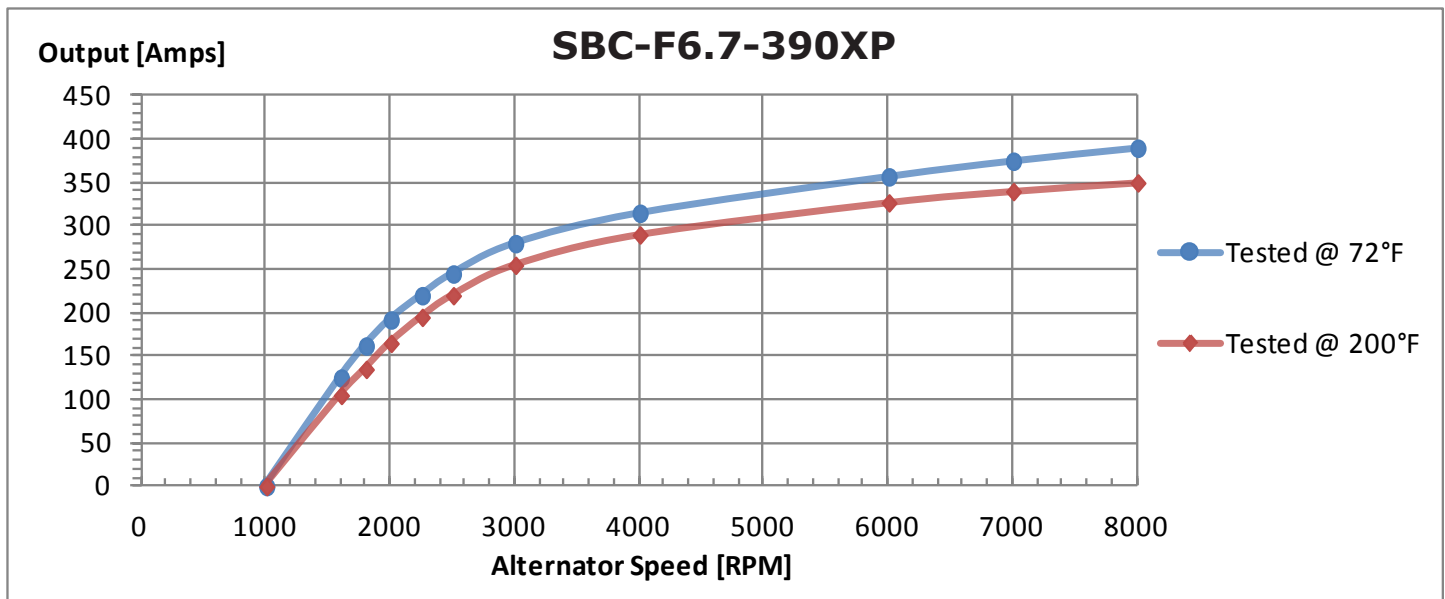


Smart Battery Charger

17779 Main St Suite C, Irvine, CA 92614
Tel: +1 (949) 333-3800 Fax: +1 (949) 333-3804
www.SmartBatteryCharger.net

PART NUMBER: SBC-F6.7-390XP

Description	High Output Alternator
Availability	In Stock
Volts	14
Amps @ Normal Engine Idle	220
Amps @ Fast Engine Idle	235
Maximum Amps	392
Mounting Style	Direct Fit to OEM Mounts
Rotation	Clockwise
Housing Material	A305 Aluminium
Housing Finish	Natural Aluminium
Positive Output Stud	8 mm x 1.25 Copper
Negative	Case Ground
Insulated Ground	No
Regulator Sensing	Internal
Regulation	Internal
Regulator Type	OEM
Excitation	Vehicle OEM
Rotor Shaft Diameter	17 mm
Pulley	6061T6 Hard Anodized Aluminium
Rectifier	Internal 12x Sanken 40a
Shipping Weight	18 lbs (8.2 kg)



Output Tested @ 14V

Smart Battery Charger

17779 Main Street Suite C, Irvine, CA 92614
Tel: +1 (949) 333-3800 Fax: +1 (949) 333-3804
www.SmartBatteryCharger.net