■CHARGING SYSTEM

1. General

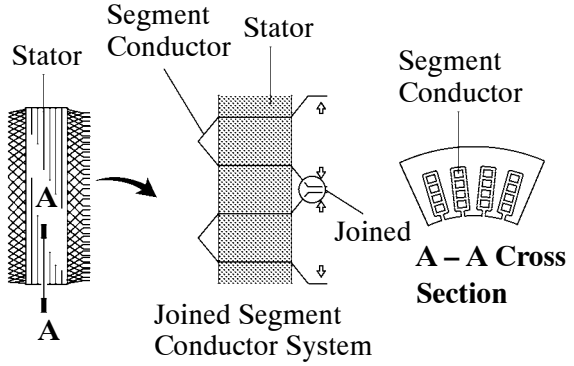
A compact and lightweight segment conductor type alternator is used.

▶ Specifications ◀

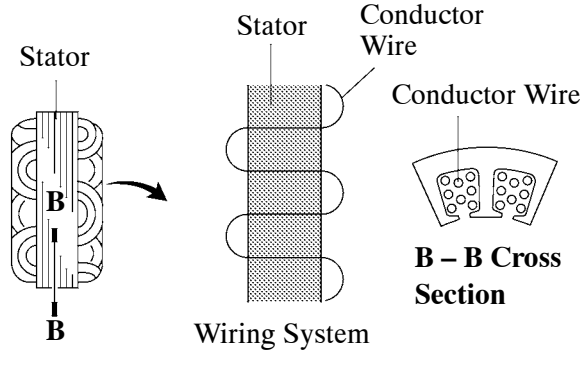
Type	SE0
Rated Voltage	12 V
Rated Output	100 A

2. Segment Conductor Type Alternator

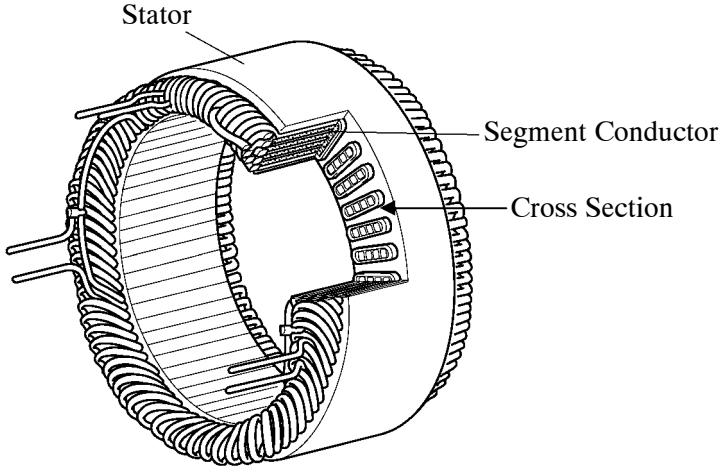
- The segment conductor type alternator generates a high amperage output in a highly efficient manner.
- This alternator uses a joined segment conductor system, in which multiple segment conductors are welded together to the stator. Compared to the conventional winding system, the electrical resistance has been reduced due to the shape of the segment conductors, and their arrangement helps to make the alternator more compact.



Segment Conductor Type Alternator

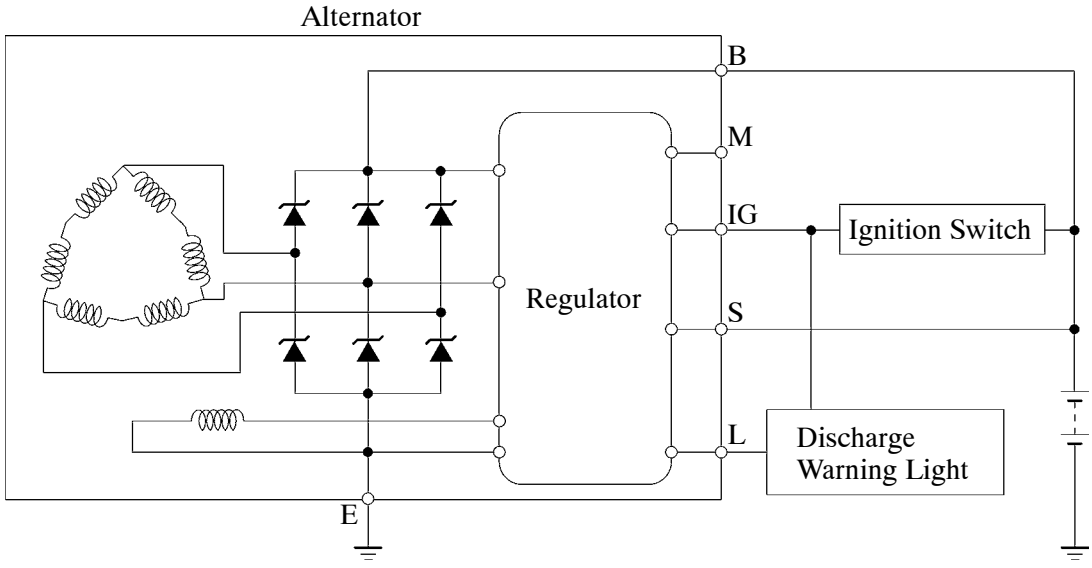


Conventional Type Alternator



Stator of Segment Conductor Type Alternator 206EG42

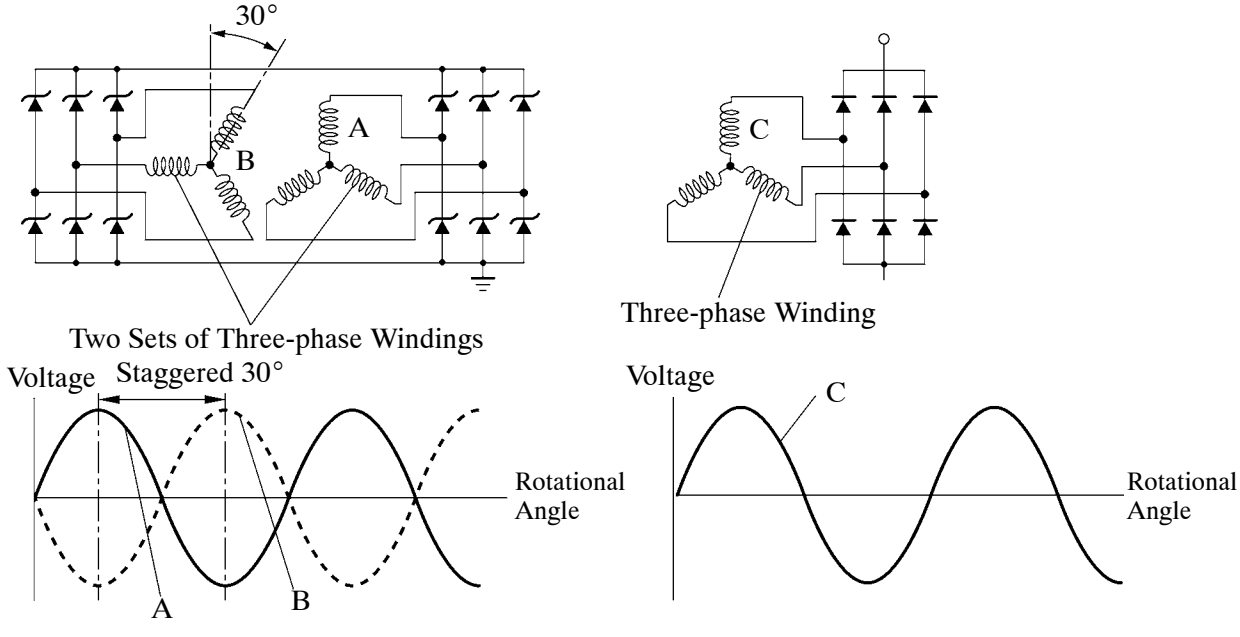
▶ **Wiring Diagram** ◀



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3. Dual Winding System

A dual winding system is used. This system consists of two sets of three-phase windings whose phases are staggered 30°. This system results in the reduction of both electrical noise (ripple and spike), and magnetic noise (a hum that is heard as alternator load is increased). This system significantly suppresses noise at the source (alternator). Because the waves that the respective windings generate have opposite polarities, magnetic noise is reduced. However the electrical power generated does not cancel itself out due to the use of separate rectifiers. The opposite polarities that are generated are shown below:



Dual Winding **Single Winding**

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