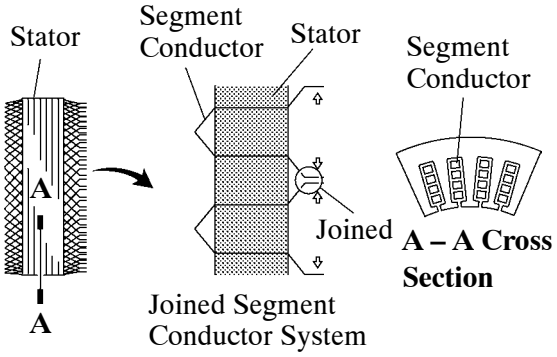
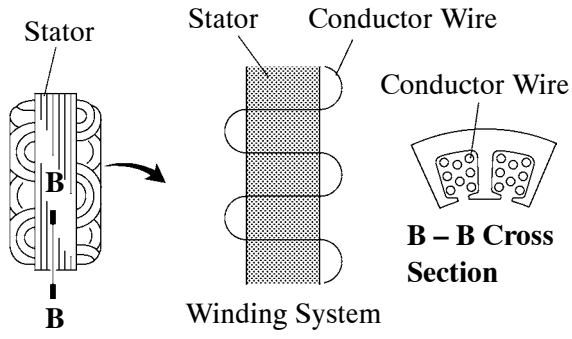
10. Charging System

Segment Conductor Type Alternator

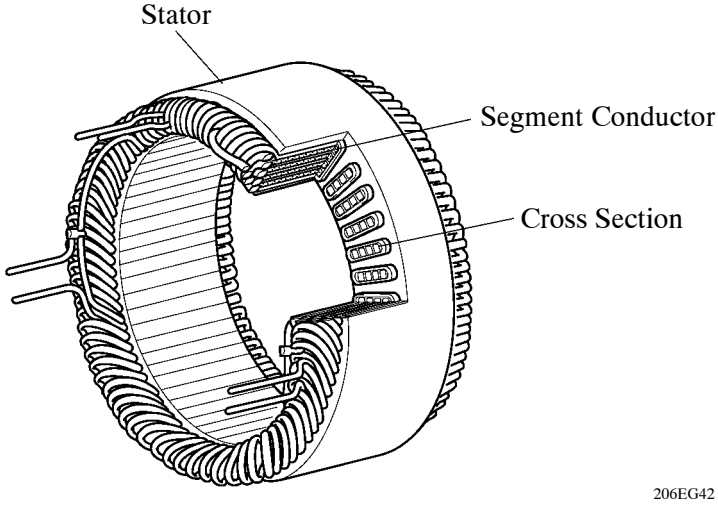
- A compact and lightweight segment conductor type alternator is used. This type of alternator generates a high amperage output in a highly efficient manner.
- This alternator uses a joined segment conductor system, in which multiple segment conductors are welded together at the stator. Compared to the conventional winding system, the electrical resistance is 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

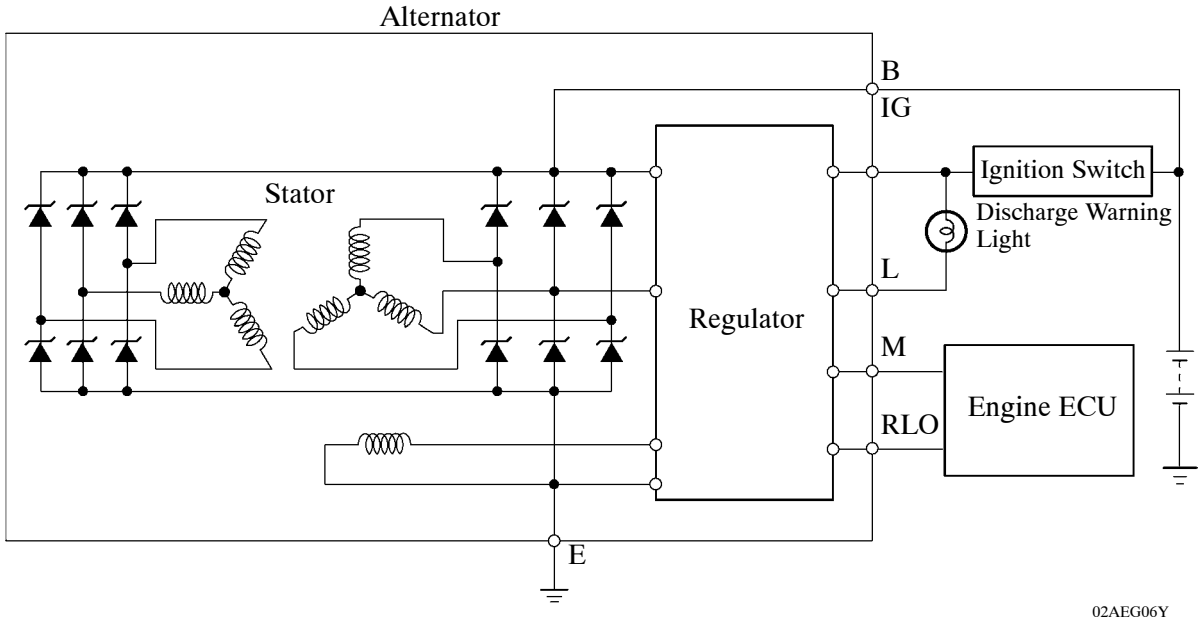


Stator of Segment Conductor Type Alternator

▶ Specifications ◀

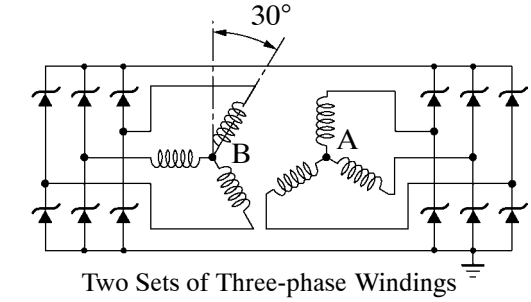
Type	SC2
Rated Voltage	12 V
Rated Output	150 A
Initial Output Starting Speed	Max. 1,300 rpm

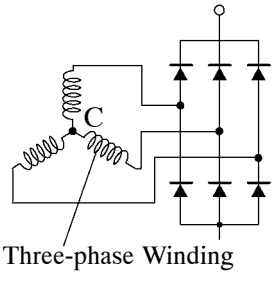
▶ Wiring Diagram ◀

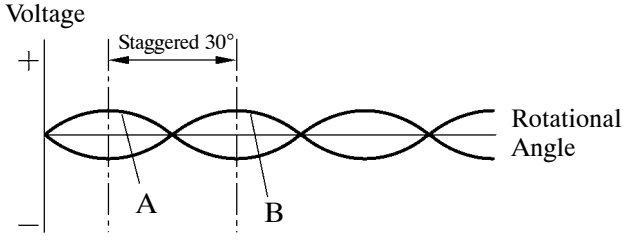


Dual Winding System

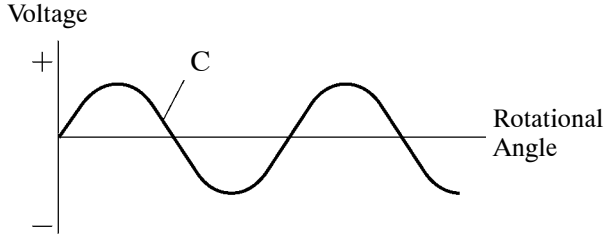
This type alternator uses a dual winding system. This system consists of two sets of three-phase windings whose phases are staggered 30°. Because the magnetic fluctuations of the respective windings cancel each other out, magnetic noise and radio frequency interference are reduced.







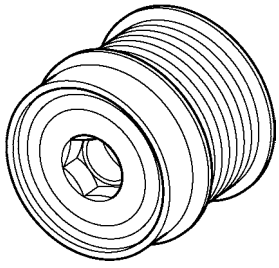
Dual Winding System Type Alternator



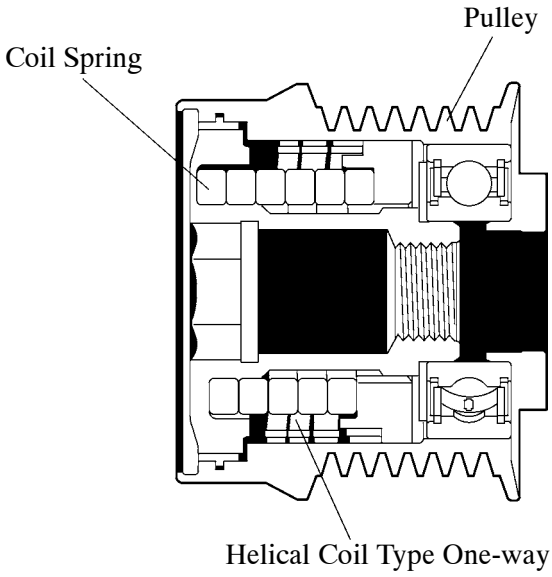
Conventional Type Alternator

Alternator Pulley

- A helical coil type one-way clutch is used on the alternator pulley in order to reduce the load that acts on the auxiliary equipment belt.
- The pulley mounting nut and the alternator pulley have been integrated to achieve a compact construction.



281EG12



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