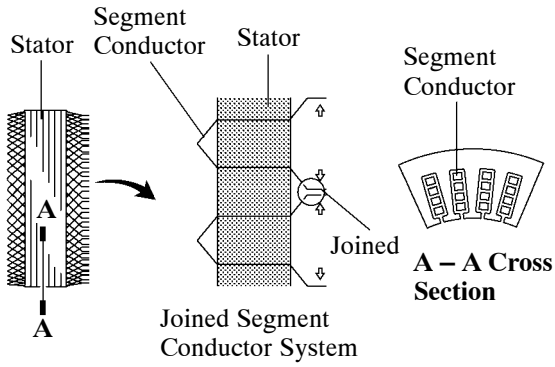
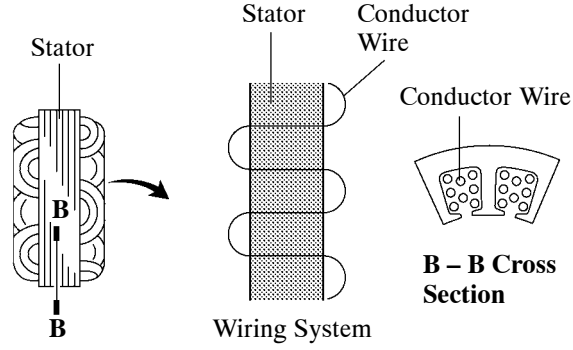
■CHARGING SYSTEM

1. General

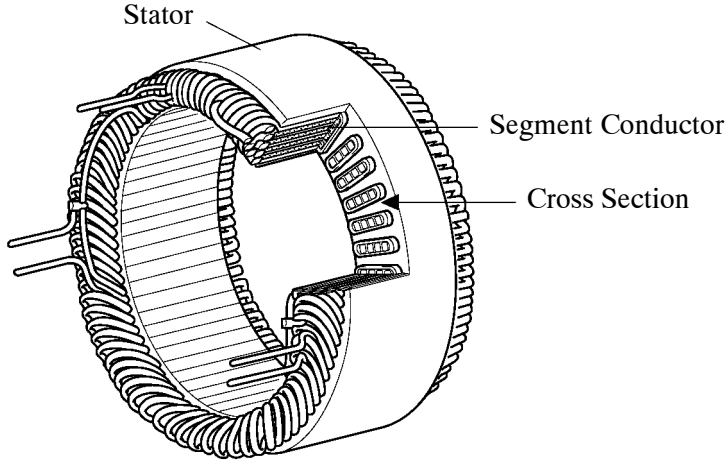
- A compact and lightweight segment conductor type generator is used. This type of generator generates a high amperage output in a highly efficient manner.
- This generator uses a joined segment conductor system, in which multiple segment conductors are welded together to the stator. Compared to the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



Segment Conductor Type Generator



Conventional Type Generator



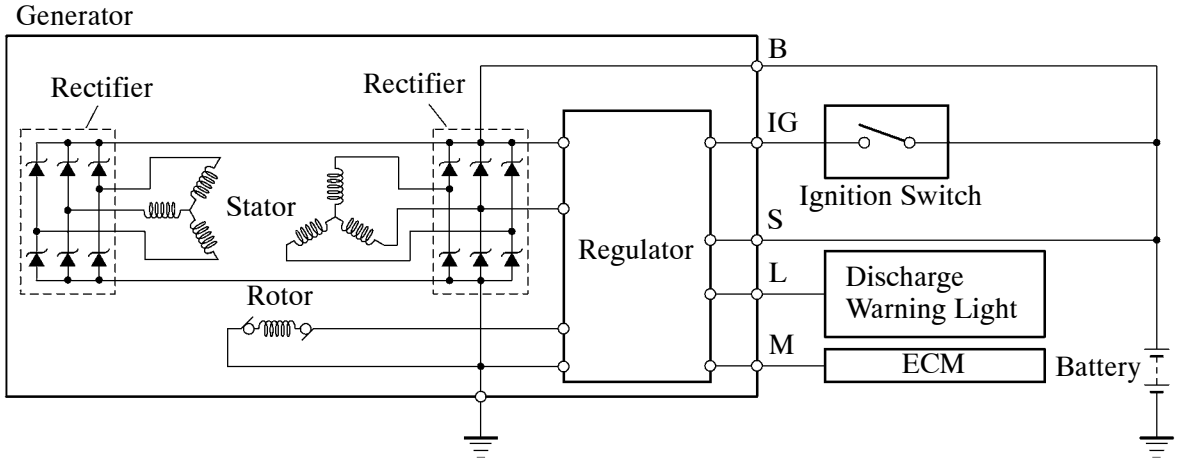
Stator of Segment Conductor Type Generator

206EG42

▶ Specifications ◀

Equipment	Standard	Optional (Towing Package)
Type	SC1	SC2
Rated Voltage	12 V	12 V
Output Rated	130 A	150 A

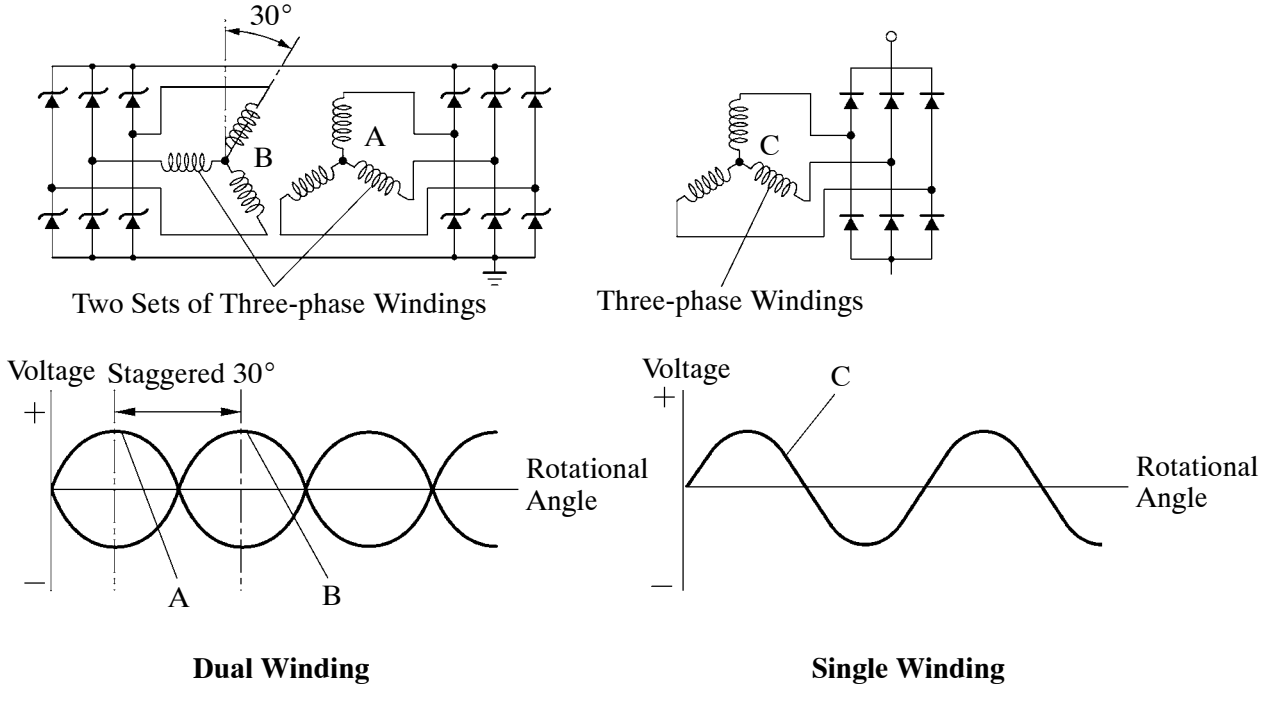
▶ Wiring Diagram ◀



08LEG22Y

2. 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 generator load is increased). This system significantly suppresses noise at the source (generator). 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**

279EG32