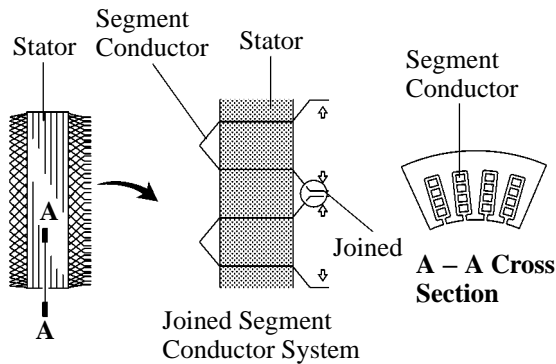


■ CHARGING SYSTEM

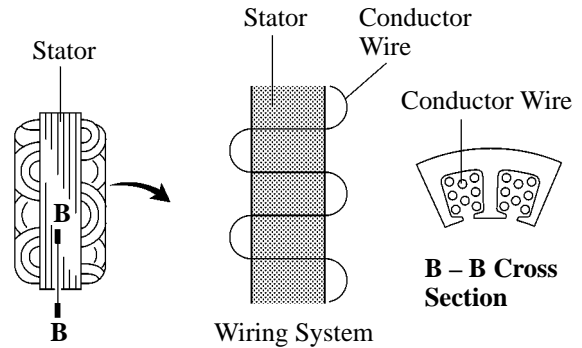
1. General

- 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.



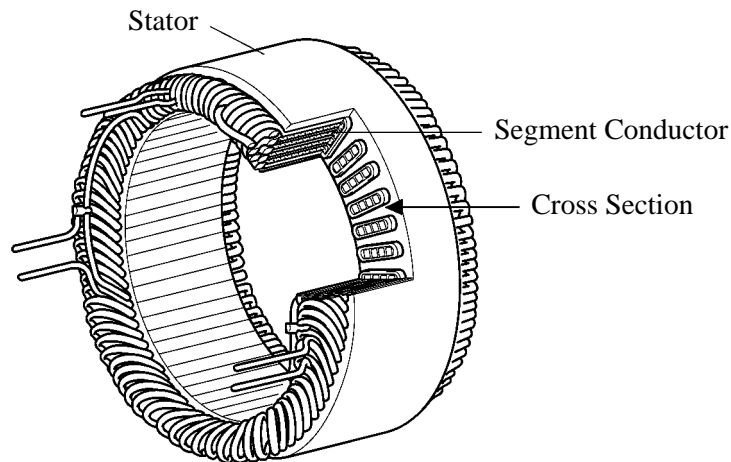
206EG40

Segment Conductor Type Generator



206EG41

Conventional Type Generator



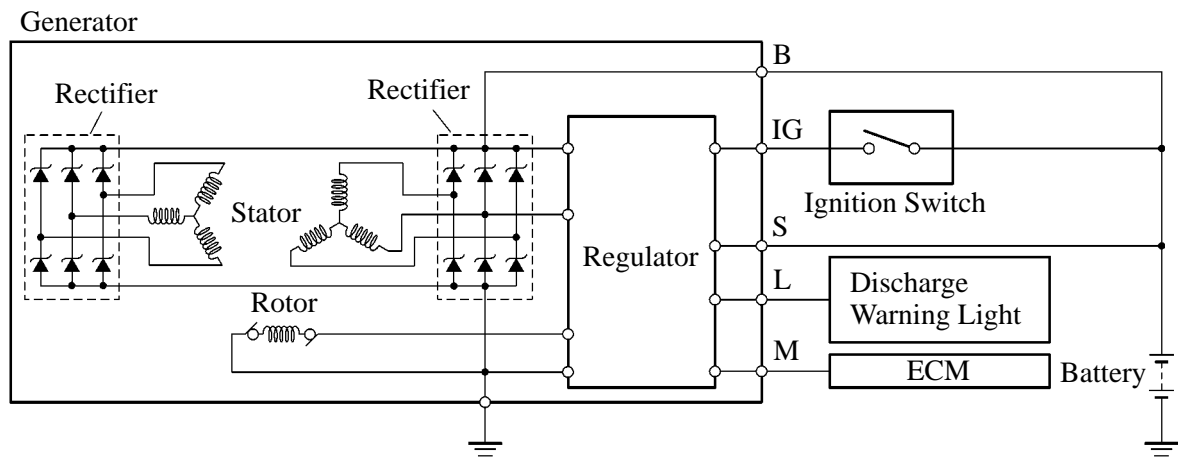
Stator of Segment Conductor Type Generator

206EG42

► Specifications ◀

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

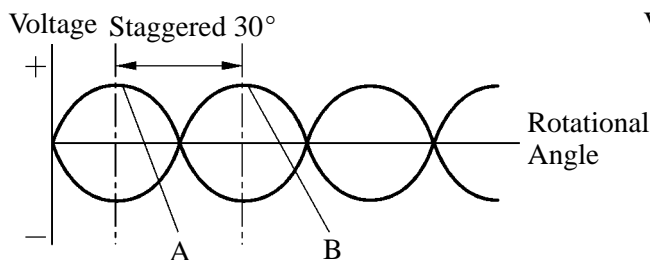
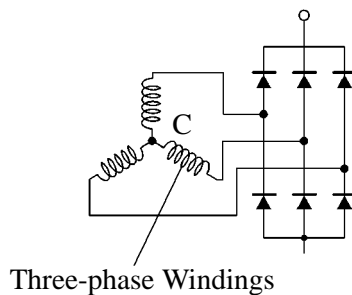
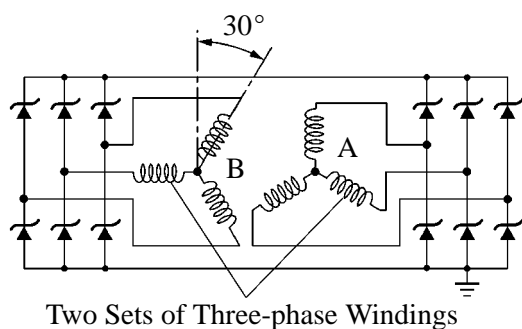
► Wiring Diagram ◀



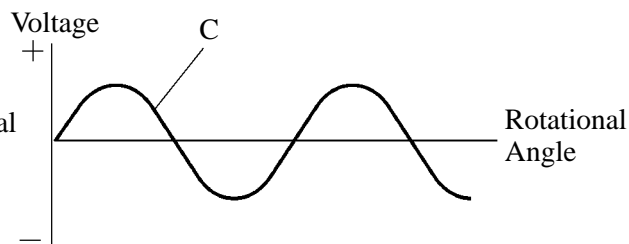
08LEG22Y

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

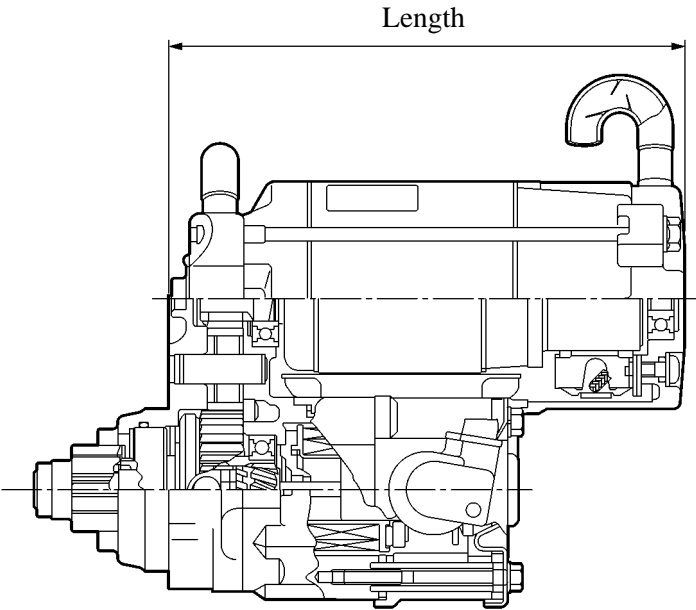


Single Winding

279EG32

■ STARTING SYSTEM

The reduction type starter is used on all models



08LEG20Y

► Specifications ◀

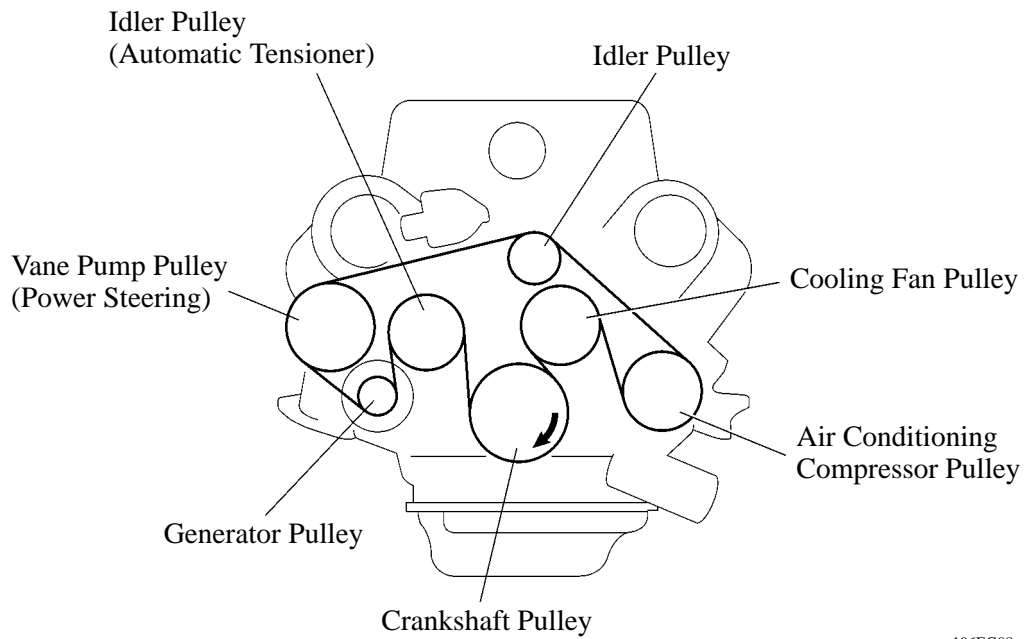
| | | |
|-------------------------------------|----------------|--------------|
| Starter Type | RA2.0 | |
| | Reduction type | |
| Rating Output | 2.0 kW | |
| Rating Voltage | 12 V | |
| Length* ¹ | mm (in.) | 174.5 (6.87) |
| Weight | g (lb) | 4660 (10.3) |
| Rotating of Direction* ² | Clockwise | |

*¹: Length from the mounted area to the rear end of the starter

*²: Viewed from Pinion Side

■ SERPENTINE BELT DRIVE SYSTEM

- A serpentine belt drive system, which drives all accessory components by a single V-ribbed belt, is used. It reduces the overall engine length, weight and the number of engine parts.
- An automatic tensioner is used. This makes the tension adjustment unnecessary.



196EG08