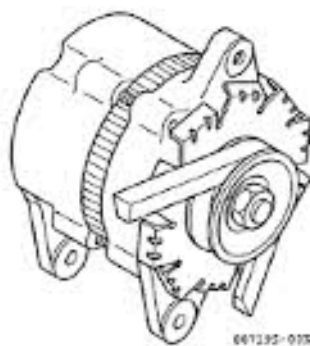


## 13.4 Alternator standard, 12V/80A

The alternator serves to keep the battery constantly charged. It is installed on the gear case, and is driven from the V-pulley at the end of the crankshaft by a V-belt.

The type of alternator used in this engine is ideal for high speed engines with a wide range of engine speed. It contains diodes that convert AC to DC, and an IC regulator that keeps the generated voltage constant even when the engine speed changes.



### 13.4.1 Specifications

Yanmar code	119578-77210
Model of alternator	L-X4447 (HITACHI)
Battery voltage	12V
Nominal output	12V/80A
Earth polarity	Negative earth (-)
Direction of rotation (viewed from pulley end)	Clockwise
Mass	5.8 kg
Rated speed	5000 min <sup>-1</sup>
Operating speed	1,200-9,000 min <sup>-1</sup>
Speed for 13.5V at 20°C	1200 min <sup>-1</sup> or less
Output current for 13.5V	75A or more at 5000 min <sup>-1</sup>
Regulated voltage	14.5±0.3V (at 20°C, voltage gradient -0.01V/°C)