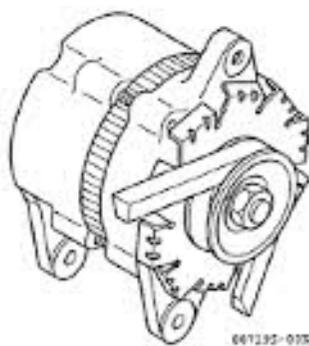


13.4 Alternator standard, 12V/80A

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 ⁻¹
Operating speed	1,200-9,000 min ⁻¹
Speed for 13.5V at 20°C	1200 min ⁻¹ or less
Output current for 13.5V	75A or more at 5000 min ⁻¹
Regulated voltage	14.5±0.3V (at 20°C, voltage gradient -0.01V/°C)