



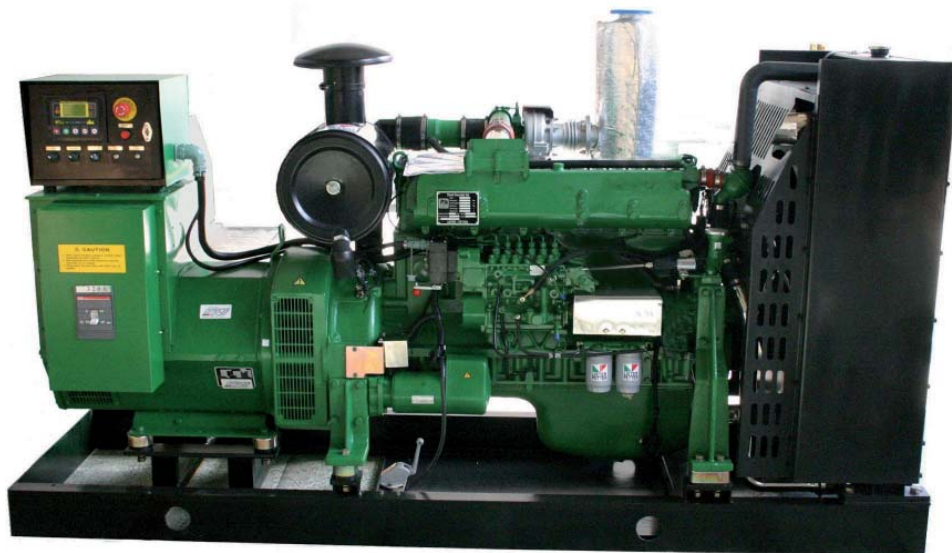
OMEGA Series

LL0 100 Genset (50 Hz)

LL0 100/100, LL0 100/125, LL0 100/150

*Prime power outputs: 100 kVA, 125 kVA, 150 kVA
Standby power outputs: 110 kVA, 137.5 kVA, 165 kVA*

Heavy-duty radiator-cooled base-mounted open generating set



LLO 100 Generating Set Features

- Three-phase, 50 Hz
- OMEGA 100 water-cooled turbocharged six-cylinder diesel engine
- control panel with electronic digital control module
- tropical radiator for excellent cooling
- single-bearing brushless alternator
- guarded pusher fan, to keep control module, alternator and engine cool
- anti-vibration mounts on engine and alternator
- battery leads and brackets
- fabricated steel skid base
- electro-mechanical governing
- Operators' Handbook

Optional Items

- cold-start capability to -40 °C
- tool kit

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Engine Features

- 24-volt electric starting
- 35 Amp battery-charging alternator
- twin oil and fuel filters
- heavy-duty air cleaner
- fuel solenoid

Alternator Specifications

- single-bearing brushless
- solid state AVR with $\pm 1.5\%$ voltage regulation as standard
- class “H” insulation on the rotor and stator
- IP22 protection class

Control System Features

The control system provides:

- manual and automatic control
- emergency stop button
- power switch
- idle switch
- cold start switch
- AC circuit breaker
- monitoring of generating set functions
- lockable preset controls for frequency (speed) and voltage adjustment

Power Outputs and Fuel Consumption							
Model	Frequency	Power Rating			Voltage	Fuel Consumption (L/h)	
						100% load	75% load
LLO 100/100	50 Hz, 1500 r/min	Prime	100 kVA	80 kW	3-phase 380/220 400/230 415/240	24.7	19.1
		Standby	110 kVA	88 kW			
LLO 100/125		Prime	125 kVA	100 kW	3-phase 380/220 400/230 415/240	31.2	24.1
		Standby	138 kVA	110 kW			
LLO 100/150		Prime	150 kVA	120 kW	3-phase 380/220 400/230 415/240	37.0	28.6
		Standby	165 kVA	132 kW			

All ratings are in accordance with ISO 8528-1. Power Factor: 0.8 pf.
Other products are available; refer to Lister Petter for details.

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Control Module Features

The control module displays:

- voltage (V)
- current (A)
- power (kW)
- power factor
- frequency (Hz)
- engine water temperature (°C)
- engine speed (r/min)
- battery voltage (V)
- engine oil pressure (kPa)
- hours run (h/min/sec)
- cumulative energy generated (kWh)
- date and time (digital)
- mains voltage (V)
- generator voltage (V)
- load (A)
- mode (manual or automatic)

Fault Warnings

The generating set will warn of the following fault conditions:

- cooling-water temperature too high
- lubricating-oil pressure too low
- engine speed outside set parameters
- generator frequency outside set parameters
- generator voltage outside set parameters
- battery voltage is abnormal
- failure to stop
- failure to crank
- loss of speed

The warning alarm will be triggered and the protection system will shut down the set under the following conditions:

- low oil pressure
- high water temperature
- overspeed or underspeed
- generator over current
- emergency stop button pressed

Rating Definitions to ISO 8528-1

Rating Conditions

A standard generating set is designed to operate in environmental reference conditions of 25 °C, 100 kPa and 30% humidity.

Prime Power

This rating is for the supply of continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation on the annual hours of operation and 10% overload power can be supplied for one hour in twelve hours.

Standby Power

This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted.

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Approximate Dimensions and Weight					
<p>Side elevation (left); end elevation (right)</p>	Model:	LLO 100/100	LLO 100/125	LLO 100/150	
	Dry weight	kg	1800	1800	1800
		lb	3960	3960	3960
	Length (A)	mm	2520	2520	2520
		in	99	99	99
	Height (B)	mm	1550	1550	1550
		in	61	61	61
	Width (C)	mm	870	870	870
		in	33	33	33

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