



Omega Genset LLO 100 Series (50 Hz)

LLO 100/100, LLO 100/125, LLO 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 regulation
- operators' handbook

Optional Items

- cold-start capability to -40 °C
- residential silencer
- tool kit
- manual changeover switches

Engine Features

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

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

LLO 100 Series Power Outputs					
Model	Frequency	Power Rating			Voltage
LLO 100/100	50 Hz 1500 r/min	Prime	100 kVA	80 kW	3-phase 380/220 400/230 415/240
		Standby	110 kVA	88 kW	
LLO 100/125	50 Hz 1500 r/min	Prime	125 kVA	100 kW	3-phase 380/220 400/230 415/240
		Standby	138 kVA	110 kW	
LLO 100/150	50 Hz 1500 r/min	Prime	150 kVA	120 kW	3-phase 380/220 400/230 415/240
		Standby	165 kVA	132 kW	

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

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 in relation to the mains
- generator voltage outside set parameters in relation to the mains
- 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.

Omega LLO 100 Generating Set: Approximate Dimensions and Weight

Omega LLO 100 generating set side elevation (left); end elevation (right)		Omega genset:	LLO 100/100	LLO 100/125	LLO 100/150
			Dry weight	kg	1800
lb	3960			3960	3960
Length (A)	mm	2500	2500	2500	
	in	99	99	99	
Height (B)	mm	1540	1540	1540	
	in	61	61	61	
Width (C)	mm	845	845	845	
	in	34	34	34	

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