



Omega Genset LLO 200 Series (50 Hz)

LLO 200/175, LLO 200/200, LLO 200/225

Prime power outputs: 175 kVA, 200 kVA, 225 kVA
Standby power outputs: 193 kVA, 220 kVA, 248 kVA

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



LLO 200 Generating Set Features

- Three-phase, 50 Hz
- Omega 200 water-cooled turbocharged, intercooled 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 are provided for frequency (speed) and voltage adjustment.

LLO 200 Series Power Outputs					
Model	Frequency	Power Rating			Voltage
LLO 200/175	50 Hz 1500 r/min	Prime	175 kVA	140 kW	3-phase 380/220 400/230 415/240
		Standby	193 kVA	154 kW	
LLO 200/200	50 Hz 1500 r/min	Prime	200 kVA	160 kW	3-phase 380/220 400/230 415/240
		Standby	220 kVA	176 kW	
LLO 200/225	50 Hz 1500 r/min	Prime	225 kVA	180 kW	3-phase 380/220 400/230 415/240
		Standby	248 kVA	198 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 200 Generating Set: Approximate Dimensions and Weight

Omega genset:		LL0 200/175	LL0 200/200	LL0 200/225	
		Omega LLO 200 generating set side elevation (left); end elevation (right)		kg	2000
lb	4400			4620	4840
Length (A)		mm	2870	2870	2870
		in	113	113	113
Height (B)		mm	1600	1600	1600
		in	63	63	63
Width (C)		mm	1220	1220	1220
		in	48	48	48



Distributor's Address



UK

Lister Petter Limited, Dursley, Gloucestershire GL11 4HS England
 Tel: +44 (0)1453 544141; Fax: +44 (0)1453 546732;
 E-mail: sales@lister-petter.co.uk <http://www.lister-petter.co.uk>

USA

Lister Petter Americas Inc. 815 E. 56 Highway, Olathe, Kansas 66061 USA
 Tel: +1 913 764-3512; Fax: +1 913 764-5493;
 E-mail: info@lister-petter.com; <http://www.lister-petter.com>

France

Lister Petter France, 17 Avenue de L'escouvrier, Zone d'Activites, 95842 Sarcelles, Cedex France; Tel: +33 (0)1 39330420; Fax: +33 (0)1 34195760; E-mail: commercial@lister-petter-france.fr

India

Lister Petter Private Limited, 102 Beaver Gradeur, Baner, Pune 411045 India
 Tel: +91 20 729 3284; Fax: +91 20 729 3287

China

Lister Petter China, Jinan Fuqiang Power Co. Ltd, Shandong Zhangqiu Industrial Area, Jinan 250220, P.R. China
 Tel: +86 531 8558 4852; Fax: +86 531 8558 4820

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