

# LLO GENSET (60 HZ)

## LLO 200/256

Prime power outputs: 256 kVA  
Standby power outputs: 282 kVA

### HEAVY DUTY RADIATOR COOLED BASE MOUNTED OPEN GENERATING SET

#### LLO (60 HZ) GENERATING SET FEATURES

- three phase, 60 Hz
- Omega 200 liquid cooled turbocharged inter cooled 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
- electromechanical regulation
- operators' handbook

#### OPTIONAL ITEMS

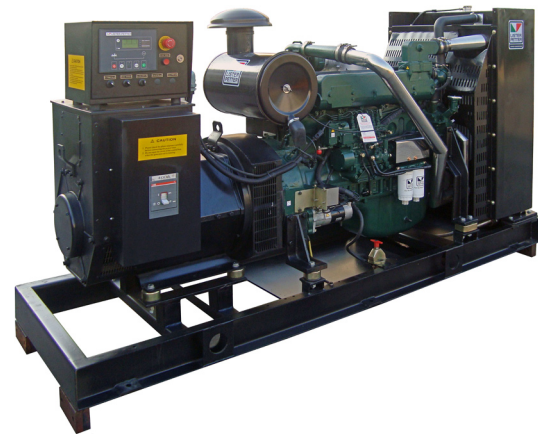
- cold start capability to -40 °C

#### 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



LLO GENSET

- 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

### 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

### POWER OUTPUTS TO ISO 8528-1

Model	Frequency	Power Rating		Voltage
		Prime	Standby	
LLO 200/256	60 Hz, 1800 r/min	256 kVA	205 kW	3-phase 220/127
		282 kVA	226 kW	230/133

### FUEL CONSUMPTION

Model		At 100% load	At 75% load
LLO 200/256	litres/h	58.4	45.1

### RATING DEFINITIONS TO ISO 8528-1

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

#### 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.

**APPROXIMATE WEIGHT AND DIMENSIONS**



Side elevation (left); end elevation (right)

Model		LLO 200/256
Dry Weight	kg	2200
	lb	4840
Length (A)	mm	2790
	in	110
Height (B)	mm	1600
	in	63
Width (C)	mm	870
	in	34

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