

DIESEL GENERATOR SETS IND GM1250 L

TECHNICAL DATA SHEETS

Generator Model	:	IND GM1250 L	Standby Power (ESP)	:	1250 kVA 1000	kW
Engine	:	MTU	Prime Power (PRP)	:	1135 kVA 908	kW
Alternator	:	LEROY SOMER	Voltage	:	400 V ± %10	



Photo may be demonstration or a different size generator $% \left(x\right) =\left(x\right) +\left(x\right)$

Benefits

- Low fuel consumption
- High availability & reliability
- Outstanding load acceptance
- Long maintenance intervals
- High starting kVA capability

General Features:

- Heavy duty water cooled engine
- Self-excited, H Insulation class alternator
- Tropical type radiator with mechanical fan
- Fully guarded engine-driven fan
- Jacket water heater
- Linear vibration isolators between base and enginegenerator
- Starter batteries and connection cables
- Engine-driven battery charging alternator
- Residential type silencer
- Primary and secondary fuel filters
- Auto start control system with digital instrumentation
- Emergency stop pushbutton
- Control panel with digital-automatic main control module
- Operation & Maintenance Manual
- Wide range of optional extra features available
- Oversized alternators

Standards

Engine-generator set is designed and manufactured in facilities certified to standards ISO 2008:9001 Generator set complies to ISO 8528 and fulfils performance level G3

Generator meets BS5000; NEMA MG 1; ISO; DIN EN and IEC standards

Available optimizations

Emission optimized

Fuel consumption optimized

Engine			Alternator			
Manufacturer	:	MTU	Manufacturer	:	LEROY SOMER	
Model	:	16V2000G36F	Model	:	LSA 50.2 M6	
Standby Power(Net)	:	1100 kWm			Brushless,	
Prime Power (Net)	:	1000 kWm	Туре	:	Synchronous, Single	
Speed	:	1500 rpm			Bearing	
Cylinder configuration	:	16 V	Excitation System	:	Self-Excited	
Bore & Stroke	:	135 mm x 156 mm	Voltage	:	400 V ± %10	
Displacement	:	35,7 Lt	Insulation Class	:	Н	
Aspiration & Cooling	:	Turbo Charged	Phase/Poles	:	3 Phase/4 Poles	
Compression Ratio	:	17,5:1	Frequency	:	50 hz	
Fuel System	:	Direct Injection	Speed	:	1500 Rpm	
Cooling Type	:	Water Cooled	Protection Class	:	IP23	
Governing		Electronic	Excessive Loading		For 1 Hour % 110, For 2	
Governing	•	Electionic	Capacity	•	Minutes %150	
Speed Regulation*	:	± 0.25 %	Voltage Regulation*	:	± 0.25 %	

*

^{*} Steady state from no load to full load

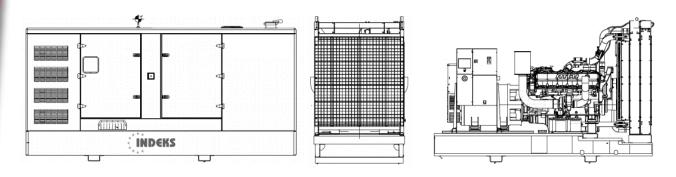
Engine Fuel system					
Fuel Consumption (%50 of Standby Power)	:	130 Lt	Fuel Consumption (%50 of Prime Power)	:	120 Lt
Fuel Consumption (%75 of Standby Power)	:	189 Lt	Fuel Consumption (%75 of Prime Power)	:	174 Lt
Fuel Consumption (%100 of Standby Power)	:	255 Lt	Fuel Consumption (%100 of Prime Power)	:	231 Lt

Liquid Capacity					
Total oil system: L	:	102	Total coolant capacity: L	:	100

Cooling/Radiator System						
Ambient capacity of radiator : °C	:	40°C				
Pressure on radiator exhaust: kPa	:	0,2				
Heat rejection to coolant: kW	:	395				

Frame
Formed steel base with linear vibration isolators between base and engine-generator
Fuel tank base frame integrated up to 10 hours operation
Easy lifting system (lifting eyes & forklift pockets)

Control and Protection System				
Control, monitoring and protection panel is	Monitoring of Electronic (J1939) or Non-electronic			
mounted on the genset base frame.	Engines			
Standard indicators, alarms, buttons, keys.	Genset & Busbar Control & Protection			
Useful design for Automatic / Manual working	Up to 13 Digital Inputs, 5 Analogue Inputs and 8			
Useful design for Automatic / Manuel working	Relay Outputs			
Auto Start or Automatic Mains Failure Applications	Modbus Communication RS485			
Remote start, ATS AMF panel control,	Configurable for Other Applications			
Configurable with Utility Software Graphical Display (Multi-language)				
Standard Electrical Protections: Under voltage (27), Reverse Power, Overload (32), Overcurrent(50/51),				
Over / Under Frequency (81), Over voltage (59), Earth Fault Protection (50N/51N, 50G/51G)				



Overall Dimensions & Weights (Without Enclosure)				Overall Dimensions & Weights (With Enclosure)					
•	Length (L)	4800	mm	•	Length (L)	6600	mm		
•	Width (W)	2000	mm	•	Width (W)	2200	mm		
•	Height (H)	2200	mm	•	Height (H)	2500	mm		
•	Weight	7125	kg	•	Weight	9500	kg		

Ratings And Standard Reference Conditions

Prime Power (PRP) These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply %10 overload power for 1 hour in 12 hours.

Standby Power (ESP) is defined as the maximum power available during a variable electrical power sequence, under the stated operating, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 500 hours of operation per year under average of 70% load. No overload is permitted on these ratings.

Optional Equipment	
Automatic fuel transfer pump	Remote Display
Fuel cooler	3/4 Pole circuit breaker
Permanent Magnet	Customized power panels
Alternator Heater	Oil Drain Pump Manual / Automatic
Bearing & Winding sensors	Sound attenuated enclosure (60-95 dBA)
ATS (Automatic Transfer Switch)	Tool kits
Control version for parallel operations (with mains & with other generator sets)	Enhanced electrical protection options
Fully customized remote monitoring systems, S Projects, Power Plants, etc.	CADA - PLC, extra special solutions in Medium Voltage