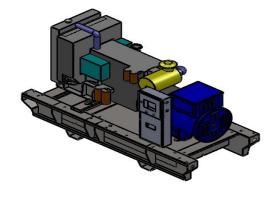
MTU 1250 -L 1000 KW INDUSTRIAL DIESEL GENERATOR SET

METS ENERGY INNOVATING POWER SINCE 1987

Prime Power Ra 1250 kVA	KW		50	Hz
Standby Power 1375 kVA	KW	1	50	Hz
Prime Power Ra NA kVA	KW	1	60	Hz
Standby Power	KW	I	60	Hz





Codes and Standards

METS Energy products are designed to the following standards:









ISO 3046, 7637, 8528, 9001

Electrical Genertaing Systems
Association

Powering Ahead

Since 1987, METS Energy specialized in the manufacturing, sales and rental of power generating sets, has been generating and providing power solutions to partnering clients in more than forty countries in the construction, industrial, residential and telecom sectors.

METS Energy is also a provider of Sound Proof Canopies, Electrical Panels, Synchronizing Systems, and Spare Parts.

METS Energy has differentiated itself from the various players in the industry with lasting and mutually beneficial relationships built on trust, service, and care with both suppliers and clients.

METS Energy will continue to conduct its business and extend its market boundaries with the highest standards of quality, ethics, and integrity to let customer proud, secure, and satisfied by providing dynamic products and services that meet customer needs.

*Prime power:

Variable load. Unlimited hours usage with an average load factor of 80% of the published prime power over 24 hours period. A 10% overload is available for 1 hour in every 12 hours operation

Baseload power:

Unlimited hours usage with an average load factor of 100% of the published Baseload rating. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby power:

The power limited to 500 hours annual usage with an average load factor of 80% of the published standby power rating over each 24-hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

Due to continuous product development, we reserve the right to change specifications at any time without prior notice.

MTU | 1250 | -L | 1000 KW INDUSTRIAL DIESEL GENERATOR SET



STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- o Air Cleaner
- o Fan Guard
- o Stainless Steel Flexible
- Connection
- o Factory Filled Oil
- ©Exhaust Silencer (SPC)
- O Industrial Exhaust Silencer

(Open Set)

ALTERNATOR SYSTEM (A/C)

- o Class H Insulation Material
- Vented Rotor
- o 2/3 Pitch
- o Skewed Stator
- o Auxiliary Voltage Regulator Power Winding
- o Sealed Bearing
- o Rotor Dynamically Spin Balanced
- o Amortisseur Winding
- o Full Load Capacity Alternator

GENERATOR SET & ENCLOSURE (if selected)

- o Insulated Exhaust Piping
- o Internal Genset Vibration Isolation
- o Separation of Circuits High/Low Voltage
- o Main Line Circuit Breaker
- o Battery Cables and tray
- o Rust-Proof with Nylon Washers
- o Sound-Absorbing Material (L1 & L2)
- o Gasketed Doors
- o Stainless Steel Lift Off Door Hinges (For SM)
- o Stainless Steel Lockable Handles (For SM)

TANK & FUEL SYSTEM

- O Flexible Fuel Lines
- o Primary Fuel Filter
- o Air Outlets Vent
- Drain Valves
- o Protected Level Gauge
- Primary paint protection against corrosions

COOLING SYSTEM

- o Factory-Installed Radiator
- o Factory Antifreeze filling
- o Closed Coolant Recovery System
- o Radiator Drain Extension
- o Antifreeze Ready Mix -25°C

CONTROL SYSTEM

- o 21-Light Remote Annunciator
- o Remote Relay Panel (8 or 16)
- o 10A Run Relay
- o Remote Emergency Stop (Surface Mount)
- o Remote Communication-Modem/Ethernet
- \circ Oil Temperature Sender & Indication Alarm

ENGINEERED OPTIONS

ENGINE SYSTEM

- o Oil Make-Up System
- Oil Heater
- o Coolant Heater Ball Valves
- o Industrial Exhaust Silencer (Open Set)
- O Jacket Water Heater
- o Fuel Water Separator

ALTERNATOR SYSTEM

- o Alternator Upsizing
- o Tropical Coating
- o Anti Condensation Heater

CONTROL SYSTEM

- O Battery Disconnect Switch
- \circ Spare Inputs (x4)/Outputs (x4) H Panel On

ELECTRICAL SYSTEM

- o Battery Charging A/C Alternator
- Rubber Engine Electrical Connections
- oSolenoid Activated Starter Motor
- o 10A UL Battery Charger
- o 2.5A Battery Charger
- o Battery Warmer

TANKS

- o Horizontal Cylindrical or Cubical type
- o Single/Double Wall Fuel Tanks
- o Ground Support Base Frame
 - o Electric Fuel Level
 - o Mechanical Fuel Level
 - o Extended vent system

CIRCUIT BREAKER OPTIONS

- o Shunt Trip and Auxiliary Contact
- o Electronic Trip Breakers

ENCLOSURE

- o SSW- Super Silent Welded
- o SW- Silent Welded
- o SM- Silent Modular
- Sand Proof Enclosure
- Weather Proof

GENERATOR SET

- o METS Remote Monitoring Software
- Extended Factory Testing
- Vibration Test
- o Warranty and Maintenance Program
- o Special Testing

FEATURES

- Motorized Dampers
- o Door Switch for Intrusion Alarm
- o Enclosure Ambient Heaters

via PC software



CONTROL SYSTEM

-	Гуре
De	eep Sea
611	10 MKIII
1. Indications Operating Hours The state of the property of the Display of the	2. Warning & Shutdown Alarms • Generator Over/Under Voltage & Frequency • Crank Disconnect (Failure to Start) • Under/Over Speed • Over Current • Low oil pressure • High Water Temperature • Low Fuel Level • Low Water Level • Engine Speed (Pre-Programmed Over Speed Shut- down) • Battery Voltage Warning • Alarms & Warnings Time and Date • Alarms & Warnings for Transient and Steady State Conditions
 4. Control Auto/Start/Stop Control Emergency Stop Pushbutton/Alarm Acknowledge Engine Cool Down Timer Warm-up Timer Load Switching Timer Engine Cycle Crank USB connectivity and fully configurable 	 3.Features 132 x 64 pixel LCD display Configurable display languages Five-key menu navigation Durable soft touch membrane buttons Easy access diagnostic page Waterproof/Sealed Connectors Audible Alarms and Shutdowns Auto/Off/Manual Switch Set maintenance periods can be configured

MTU | 1250 | -L | 1000 KW INDUSTRIAL DIESEL GENERATOR SET



APPLICATION AND ENGINEERING DATA

GENERAL					ELECTRICAL SYSTEM	
Manufacturer	mtu				System Voltage (V) 24 V	
Engine Model		18V 2	000 G26F		Ground Polarity	Negative
Cylinder #/ Type		18			Battery Size & Qty	2*150 ah
Displacement - L		40.2			Battery Voltage (V)	24 V
Bore - mm (in)		135	5.31		Battery Charger	
Stroke - mm (in)		156	6		Alternator	STD
Compression Ratio		17.5				
Aspiration		Turbo	charged			
ENGINE			Prime-50 Hz	Prime-60 Hz	FUEL SYSTEM	
Engine Speed		rpm	1500	1800	Fuel Type	Diesel
Horsepower		hp	1341.0	NA	Fuel Specifications	ASTM
Piston Speed		m/s	7.8	9.4	Fuel Filtering	5 (microns)
Exhaust Flow		m3/min	NA	NA	Total Fuel Pump Flow	1500
Combustion Air		m3/min	NA	NA	(l/hr)	1300
FUEL CONSUMPTION						
Percent Load	Р	rime- 50Hz	Prime- 6	0Hz	Oil Pump Type	Gear
	L/h	g/kwh	L/h	g/kwh	Oil pan Capacity (L)	122
100%	251.0	189	NA	NA	Recommended Lube	15W40 API CH4/ CI4
75%	188	189	NA	NA	Oil	137740 7(11 01147 014
50%	130.0	196	NA	NA	Maximum Lube Oil	110
Technical data operating o	on a fuel with	density of 0.89 Kg/Lite	er		Temperature-°C	
COOLING SYSTEM			Prime- 50Hz	Prime- 60Hz	- Backpressure (kpa)	5
Coolant Flow		(I/min)	NA	NA	Exhaust Gas Temp°C	485
Heat Rejection to Cool	ant	(KW)	430.0	NA	Exhaust Outlet Size (in)	NA
nlet Air		(m3/sec)	NA	NA	Governor	Electronic
Cooling System Type			Closed Recovery		=	
Max. Operating Radiate	or Air Temp				-	
Coolant Capacity		(1)	185.0			
ALTERNATOR SPECIFICAT	TIONS					
Manufacturer		LS			Standard Excitation	Brushless with auxiliary coil
Alternator Model		LSA50	1.2M6		Bearings	Single Sealed Cartridge
		4			Coupling	Direct, Flexible Disc
nsulation Class - Rotor		Н			Voltage Regulator	Analog/ Digital
Protection		IP 23	3		Harmonic Distortion	<5% Telephone Interference Factor
Poles Insulation Class - Rotor Protection		Н	3		Voltage Regulator	Analog/ Digital
PRIME POWER RATINGS	(3 phase 24	0/300 volt-0.8 pf)	Prime-50	O Hz		
Three-Phase 230/400 VA	AC @0.8pf			000 KW		
			Prime-60) Hz		

For single phase ratings, please refer to Engineering team.

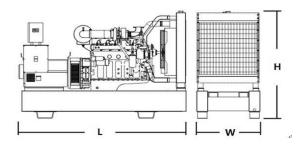
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DIMENSIONS AND WEIGHTS*

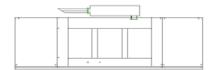
OPEN SET

L:	x W x H			Weight	
5000	2130	2470	mm	12805	Kg
196.9	83.9	97.2	in	28230.2	lbs



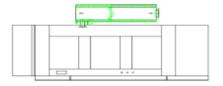
MTU	1250	-L	/ssw	(80 dB(A) @1m)	_
 Lx	WxH			Weight	
9400	2820	3200	mm	18805	Kg
370.1	111.0	126.0	in	41457.9	lbs





	MTU 1250	-L	/sw	(86 dB(A) @1m)	_
	LxWxH			Weight	
82	50 2510	2700	mm	17305	Kg
32	4.8 98.8	106.3	in	38150.9	lbs





^{*} All measurements are approximate and for estimation purposes only.

Sound level is measured in db(A) at open space and full load.

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