MTU | 1000 | -L | 800 KW INDUSTRIAL DIESEL GENERATOR SET

 Prime Power Rating*
 50 Hz

 1000 kVA | 800 KW | 50 Hz

 Standby Power Rating
 50 Hz

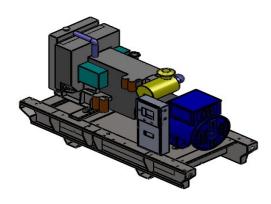
 1100 kVA | 880 KW | 50 Hz

 Prime Power Rating*
 60 Hz

 Standby Power Rating
 60 Hz

Voltage is 230/400 V, @ 0.8 pf for all ratings





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 1000 -L 800 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
- oOil 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
- O 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

- 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 | 1000 | -L | 800 KW INDUSTRIAL DIESEL GENERATOR SET



APPLICATION AND ENGINEERING DATA

				ELECTRICAL SYSTEM	
	mtu			System Voltage (V)	24 V
	16V 2000 C	G65		Ground Polarity	Negative
	16			Battery Size & Qty	2*150 ah
	31.84				24 V
	130 5.1	2			
	150 6			Alternator	STD
		11			
	Turbochar	ged			
		Prime-50 Hz	Prime-60 Hz	FUEL SYSTEM	
	rpm	1500	1800	Fuel Type	Diesel
	hp	1072.8	NA	· · · · · · · · · · · · · · · · · · ·	ASTM
	m/s	7.5	9.0	Fuel Filtering	5 (microns)
	m3/min	198	NA	Total Fuel Pump Flow	NIA
	m3/min	72	NA	(I/hr)	NA
F	rime- 50Hz	Prime- 60Hz		Oil Pump Type	Gear
L/h	g/kwh	L/h	g/kwh	Oil pan Capacity (L)	102
198.0	198	NA	NA	Recommended Lube	15W40 API CH4/ CI4
	196	NA	NA	Oil	
		NA	NA	Maximum Lube Oil	110
on a fuel with	density of 0.89 Kg/Liter			iemperature-°C	
		Prime- 50Hz	Prime- 60Hz	Backpressure (kpa)	NA
	(I/min)	NA	NA	Exhaust Gas Temp°C	530
lant	(KW)	NA	NA	Exhaust Outlet Size (in)	NA
	(m3/sec)	NA NA		Governor	Electronic
		Closed Recovery		-	
tor Air Temp		55.0		-	
	(1)	110.0			
ATIONS					
	TAL			Standard Excitation	Brushless with auxiliary coil
	TAL049E			Bearings	Single Sealed Cartridge
	4			Coupling	Direct, Flexible Disc
•	Н			Voltage Regulator	Analog/ Digital
	IP 23			Harmonic Distortion	<5% Telephone Interference Factor
S (3 phase 24	10/300 volt-0.8 pf)				
'AC @0.8pf		3	800 KW		
		Prime-60) Hz		
'AC @0.8pf			NA KW		
1	L/h 198.0 147 100.5 on a fuel with tor Air Temp	16V 2000 C 16	16V 2000 G65 116 31.84 130 5.12 150 6 0.667361111 Turbocharged Prime-50 Hz rpm 1500 hp 1072.8 m/s 7.5 m3/min 198 m3/min 72 Prime- 50Hz (I/h 198.0 198 NA 147 196 NA 100.5 201 NA on a fuel with density of 0.89 Kg/Liter Prime- 50Hz (I/min) NA Iant (KW) NA (m3/sec) NA Closed Recovery tor Air Temp (°C) 55.0 (I) 110.0 ATIONS TAL TALO49E 4 H IP 23 5 (3 phase 240/300 volt-0.8 pf) Prime-56	16V 2000 G65	Maximum Lube Oil Pump Type

For single phase ratings, please refer to Engineering team.

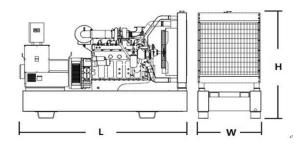
MTU 1000 -L 800 KW INDUSTRIAL DIESEL GENERATOR SET



DIMENSIONS AND WEIGHTS*

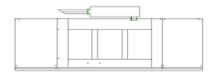
OPEN SET

LxWxH				Weight
4800	2070	2307	mm	5987 Kg
189.0	81.5	90.8	in	13199.1 lbs



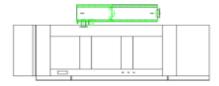
MTU 1000 -L /SSW (75 dB(A) @1m)		(75 dB(A) @1m)			
Lx	WxH			Weight	
8610	2620	3000	mm	10987	Kg
339.0	103.1	118.1	in	24222.2	lbs





	MTU 100	0 -L	/sw	(86 dB(A) @1m)	_
	LxWxH	1		Weight	
70	000 240	2700	mm	8687	Kg
27	5.6 94.5	5 106.3	in	19151.5	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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