DIESEL GENERATOR SET 3250-XC6DT2

3250 kWe / 60 Hz / Standby 480 - 13.8kV



SYSTEM RATINGS

Standby

Voltage (L-L)	480V**	600V	4160V	12470V	13200V	13800V
Phase	3	3	3	3	3	3
PF	0.8	0.8	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60	60
kW	3250	3250	3250	3250	3250	3250
kVA	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5
Amps	4887	3909	564	185	175	167
skVA@30%						
Voltage Dip	5500	6125	6300	6300	6850	7400
Generator Model*	1030FDL1110	1030FDS1128	1030FDM1188	1040FDH1256	1040FDH1256	1040FDH1256
Temp Rise	130 °C/40 °C					
Connection	6 LEAD WYE					

* Consult the factory for alternate configuration.

** UL 2200 Offered

CERTIFICATIONS AND STANDARDS

// Emissions - EPA Tier 2 Certified

// Generator set is designed and manufactured in facilities certified to standards ISO 9001:2008 and ISO 14001:2004

// UL 2200 Listed - Optional

// Performance Assurance Certification (PAC)

- Generator Set Tested to ISO 8528-5 for Transient Response
- Verified product design, quality and performance integrity
- All engine systems are prototype and factory tested

// Power Rating

- Accepts Rated Load in One Step Per NFPA 110
- Permissible average power output during 24 hours of operation is approved up to 85%.

STANDARD FEATURES*

- // MTU Onsite Energy is a single source supplier
- // Global Product Support
- // 2 Year Standard Warranty
- // 20V 4000 Diesel Engine
 - 95.4 Liter Displacement
 - Common Rail Fuel Injection
 - 4-Cycle
- // Complete Range of Accessories

// Generator

- Brushless, Rotating Field Generator
- 2/3 Pitch Windings
- PMG (Permanent Magnet Generator) supply to regulator
- 300% Short Circuit Capability
- // Digital Control Panel(s)
 - UL Recognized, CSA Certified, NFPA 110
 - Complete System Metering
- LCD Display
- // Cooling System
 - Integral Set-Mounted
 - Engine Driven Fan

STANDARD EQUIPMENT*

// Engine

Air Cleaners	No Load to Full Load Regulation
Oil Pump	Brushless Alternator with Brushless Pilot Exciter
Oil Drain Extension & S/O Valve	4 Pole, Rotating Field
Full Flow Oil Filter	130 °C Maximum Standby Temperature Rise
Closed Crankcase Ventilation	2 Bearings, Sealed
lacket Water Pump	Flexible Coupling
Inter Cooler Water Pump	Full Amortisseur Windings
Thermostats	125% Rotor Balancing
Blower Fan & Fan Drive	3-Phase Voltage Sensing
Radiator - Unit Mounted	±0.25% Voltage Regulation
Electric Starting Motor - 24V	5% Maximum Total Harmonic Distortion
Governor – Electronic Isochronous	
Base - Structural Steel	
SAE Flywheel & Bell Housing	<pre>// Digital Control Panel(s)</pre>
Charging Alternator - 24V	
Battery Box & Cables	Digital Metering
Flexible Fuel Connectors	Engine Parameters
Flexible Exhaust Connection	Generator Protection Functions

// Generator

EPA Certified Engine

NEMA MG1, IEEE and ANSI standards compliance for temperature rise
and motor starting
Sustained short circuit current of up to 300% of the rated current for
up to 10 seconds
Self-Ventilated and Drip-Proof
Superior Voltage Waveform
Digital, Solid State, Volts-per-Hertz Regulator

Generator Protection Functions Engine Protection CAN Bus ECU Communications Windows[®]-Based Software Multilingual Capability Remote Communications to RDP-110 Remote Annunciator

16 Programmable Contact Inputs

Up to 11 Contact Outputs

UL Recognized, CSA Certified, CE Approved

Event Recording IP 54 Front Panel Rating with Integrated Gasket NFPA110 Compatible

* Represents standard product only. Consult Factory/MTU Onsite Energy Distributor for additional configurations.

APPLICATION DATA

// Engine

Manufacturer	MTU
Model	20V 4000 G83L 6 ECT
Туре	4-Cycle
Arrangement	20-V
Displacement: L (in ³)	95.4 (5,822)
Bore: cm (in)	17 (6.69)
Stroke: cm (in)	21 (8.27)
Compression Ratio	16.4:1
Rated RPM	1,800
Engine Governor	Electronic Isochronous (ADEC)
Maximum Power: kWm (bhp)	3,490 (4,678)
Speed Regulation	±0.25%
Air Cleaner	Dry

// Liquid Capacity (Lubrication)

Total Oil System: L (gal)	390 (103)
Engine Jacket Water Capacity: L (gal)	205 (54.2)
After Cooler Water Capacity: L (gal)	30 (7.9)
System Coolant Capacity: L (gal)	860 (227)

// Electrical

Electric Volts DC	24
Cold Cranking Amps Under - 17.8 °C (0 °F)	4,200

// Fuel System

Fuel Supply Connection Size	#16 JIC 37° Female
	1" NPT Adapter Provided
Fuel Return Connection Size	#16 JIC 37° Female
	1" NPT Adapter Provided
Maximum Fuel Lift: m (ft)	1 (3)
Recommended Fuel	Diesel #2
Total Fuel Flow: L/hr (gal/hr)	1,620 (428)

// Fuel Consumption

	STANDBY
At 100% of Power Rating: L/hr (gal/hr)	844 (223)
At 75% of Power Rating: L/hr (gal/hr)	644 (170)
At 50% of Power Rating: L/hr (gal/hr)	447 (118)

// Cooling - Radiator System

	STANDBY
Ambient Capacity of Radiator: °C (°F)	43 (108)
Maximum Restriction of Cooling Air, Intake,	
and Discharge Side of Rad.: kPa (in. H ₂ 0)	0.12 (0.5)
Water Pump Capacity: L/min (gpm)	1,567 (414)
After Cooler Pump Capacity: L/min (gpm)	567 (150)
Heat Rejection to Coolant: kW (BTUM)	1,300 (73,929)
Heat Rejection to After Cooler: kW (BTUM)	970 (55,163)
Heat Radiated to Ambient: kW (BTUM)	237 (13,472)
Fan Power: kW (hp)	60.6 (81.3)

// Air Requirements

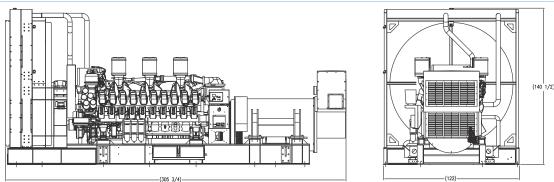
	STANDBY
Aspirating: *m ³ /min (SCFM)	264 (9,323)
Air Flow Required for Rad.	
Cooled Unit: *m ³ /min (SCFM)	3,082 (108,843)
Remote Cooled Applications;	
Air Flow Required for Dissipation	
of Radiated Gen-set Heat for a	
Max of 25 °F Rise: *m³/min (SCFM)	866 (30,384)

* Air density = 1.184 kg/m³ (0.0739 lbm/ft³)

// Exhaust System

	STANDBY
Gas Temp. (Stack): °C (°F)	525 (977)
Gas Volume at Stack	
Temp: m ³ /min (CFM)	702 (24,791)
Maximum Allowable	
Back Pressure: kPa (in. H ₂ 0)	8.5 (34.1)

WEIGHTS AND DIMENSIONS



Drawing above for illustration purposes only, based on standard open power 480 volt generator set. Lengths may vary with other voltages. Do not use for installation design. See website for unit specific template drawings.

System	Dimensions (LxWxH)	Weight (less tank)
OPU	7,766 x 3,099 x 3,569 mm (305.75 x 122 x 140.5 in)	29,651 kg (65,369 lb)

Weights and dimensions are based on open power units and are estimates only. Consult the factory for accurate weights and dimensions for your specific generator set.

SOUND DATA

Unit Type	Standby Full Load
Level 0: Open Power Unit dB(A)	95.1
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Sound data is provided at 7 m (23 ft). Generator set tested in accordance with ISO 8528-10 and with infinite exhaust.

EMISSIONS DATA

NO _x + NMHC	CO	РМ
5.1	0.6	0.03

All units are in g/hp-hr and at 100% load.

Emission levels of the engine may vary as a function of ambient temperature, barometric pressure, humidity, fuel type and quality, installation parameters, measuring instrumentation, etc. The data provided are laboratory results from one engine representing this rating. The data was obtained under controlled environmental conditions with calibrated instrumentation traceable to the United States National Bureau of Standards and in compliance with US EPA regulations found within 40 CFR Part 89. The weighted cycle value (not shown) from each engine is guaranteed to be below the US EPA Standards at the US EPA defined conditions.

RATING DEFINITIONS AND CONDITIONS

Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. No overload capability for this rating. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514, AS 2789, and DIN 6271.
Deration Factor:

Altitude: Consult your local MTU Onsite Energy Power Generation Distributor for altitude derations. **Temperature**: Consult your local MTU Onsite Energy Power Generation Distributor for temperature derations.

Materials and specifications subject to change without notice. C/F = Consult Factory/MTU Onsite Energy Distributor