DIESEL ENGINE-GENERATOR SET 200-JS6DT3

200 ekW / 60 Hz / Standby 208 - 600V



SYSTEM RATINGS

Standby

Voltage (L-L)	240V**	240V**	208V**	240V**	480V**	600V**
Phase	1	1	3	3	3	3
PF	1.0	1.0	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60	60
kW	200	200	200	200	200	200
kVA	200	200	250	250	250	250
AMPS	833	833	694	601	301	241
skVA@30%						
Voltage Dip	520	364	370	491	491	510
Generator Model	432CSL6212	432CSL6228	431 CSL 620 6	431CSL6206	431CSL6206	431PSL6243
Temp Rise	130°C/27°C	130°C/27°C	130°C/27°C	130°C/27°C	130°C/27°C	125°C/40°C
Connection	12 LEAD ZIG-ZAG	4 LEAD	12 LEAD LOW WYE	12 LEAD HI DELTA	12 LEAD HI WYE	4 LEAD WYE

^{**} UL2200 Offered

FACTS

- // EPA Tier 3 Certified
- // Engine-Generator Set Tested to ISO 8528-5 for Transient Response
- // UL2200, CSA Listing Offered
- // Accepts Rated Load in One Step Per NFPA 110, Level 1
- // All engine-generator sets are prototype and factory tested
- // MTU Onsite Energy is a single source supplier
- // Global Product Support
- // 2 Year Standard Warranty
- // 6068HF485 Diesel Engine
 - 6.8 Liter Displacement
 - 4-Cycle

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

STANDARD EQUIPMENT

// Engine

Air Cleaner Oil Pump Full Flow Oil Filter Jacket Water Pump Closed Crankcase Vent Thermostats Exhaust Manifold - Dry Blower Fan & Fan Drive Radiator - Unit Mounted Electric Starting Motor - 12V Governor - Electric Isochronous Base - Formed Steel SAE Flywheel & Bell Housing Charging Alternator - 12V Battery Box & Cables Flexible Fuel Connectors Flexible Exhaust Connection **EPA Certified Engine**

// Generator

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

No Load to Full Load Regulation

Brushless Alternator with Brushless Pilot Exciter

4 Pole, Rotating Field

130°C Standby Temperature Rise

1 Bearing, Sealed

Flexible Coupling

Full Amortisseur Windings

125% Rotor Balancing

3-Phase Voltage Sensing

±1% Voltage Regulation

100% of Rated Load - One Step

3% Maximum Harmonic Content

// Digital Control Panel(s)

Digital Metering
Engine Parameters
Generator Protection Functions
Engine Protection
SAE J1939 Engine ECU Communications
Windows-Based Software
Multilingual Capability
Remote Communications to our RDP-110 Remote Annunciator
16 Programmable Contact Inputs
7 Contact Outputs
UL Recognized, Calus, CE Approved
Event Recording

// Additional Features

NFPA110 Level Compatible

IP 54 Front Panel Rating with Integrated Gasket

Oil Drain Extension & S/O Valve
Flexible Fuel Connector
Battery Cables
Vibration Isolation Pads
Jacket Water Heater: -20° F
Mainline Circuit Breaker
UL2200 Listed
Steel Sub-Base
Radiator Duct Flange (OPU)
Lube Oil & Antifreeze
Operator's and Owner's Manual
2 Year/3000 Hour Warranty
Factory Tested at 0.8 PF (3 PH)

// Optional Features

Battery Charger: 6 Amp or 10 Amp

Battery: 12 Volt w/ Rack
Circuit Breaker: Standard or 100%

Muffler (OPU only)

Sub-Base Fuel Tank w/ Electrical Stub-Up Area

Weatherproof Enclosure
Sound Attenuation

- 1 1/2" Foam

- Sound Scoops

Remote Annunciator

Isochronous Governor

APPLICATION DATA

// Engine

Manufacturer	John Deere
Model	6068HF485
Туре	4-Cycle
Arrangement	6-Inline
Displacement: Cu In (lit)	415 (6.8)
Bore: in (cm)	4.2 (10.6)
Stroke: in (cm)	5 (12.7)
Compression Ratio	17:1
Rated RPM	1,800
Engine Governor	JDEC
Max Power: Standby: bhp (kWm)	315 (235)
Regulation	±1%
Frequency	60 Hz
Air Cleaner	Dry

// Liquid Capacity (Lubrication)

Total Oil System: gal (lit)	8.5 (32.2)
Engine Jacket Water Capacity: gal (lit)	3.3 (11.9)
System Coolant Capacity: gal (lit)	7.75 (29.3)

// Electrical

Electric Volts DC	12
Cold Cranking Amps Under 0°F (-17.8°C)	800

// Fuel System

Fuel Supply Connection Size	3/8" NPT
Fuel Return Connection Size	3/8" NPT
Maximum Fuel Lift: ft (m)	6.7 (2)
Recommended Fuel	Diesel #2
Total Fuel Flow: gal/hr (lit/hr)	24.5 (93)

// Fuel Consumption

At 100% of Power Rating: gal/hr (lit/hr)	15.5 (58.6)
At 75% of Power Rating: gal/hr(lit/hr)	11.3 (42.9)
At 50% of Power Rating: gal/hr (lit/hr)	7.9 (30)

// Cooling - Radiator System

Ambient Capacity of Radiator: °F (°C)	122 (50)
Max. Restriction of Cooling Air, Intake,	
and Discharge Side of Rad.: in. H ₂ 0 (kPa)	0.5 (0.12)
Water Pump Capacity: gpm (lit/min)	70 (265)
Heat Rejection to Coolant: BTUM (kW)	5,404 (94.9)
Heat Radiated to Air to Air: BTUM (kW)	3,264 (57)
Heat Radiated to Ambient: BTUM (kW)	1,530 (27)

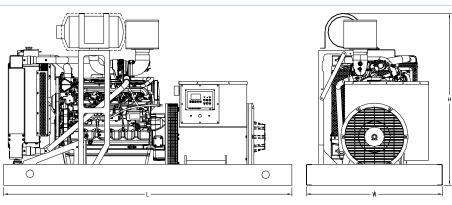
// Air Requirements

Aspirating: *SCFM (m³/min)	619 (17.5)
Air Flow Required for Rad.	
Cooled Unit: *SCFM (m³/min)	17,712 (502)
Air Flow Required for Heat	
Exchanger/Remote Rad. based	
on 25°F Rise: *SCFM (m³/min)	3,451 (98)

^{*} Air density = $0.0739 \text{ lbm/ft}^3 (1.184 \text{ kg/m}^3)$

// Exhaust System

Gas Temp. (Stack): °F (°C)	905 (485)
Gas Volume at Stack	
Temp: CFM (m³/min)	1,514 (42.9)
Maximum Allowable	
Back Pressure: in. H ₂ 0 (kPa)	40 (10)



Drawing above for illustration purposes only, based on standard open power 480 volt generator. Lengths may vary with other voltages. Do not use for installation design.

System
OPU
EPU

Dimensions	(L x W x H)
Difficultions	(LA W AII)

110 x 52 x 65.6 in (2790 x 1320 x 1,670 mm) 110 x 52 x 77.9 in (2790 x 1320 x 1,980 mm)

Height w/Tank 24hr.

97.6 in (2,480 mm) 109.9 in (2,790 mm) Weight (less tank)

4,007 lb (1,818 kg) 4,808 lb (2,181 kg)

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

nit	IVDA	
	Lype	

OPU w/Critical Grade Muffler (dBA)
Sound Attenuated Enclosure (dBA)

Measurements for sound data are taken at 23 ft (7 m).

Standby Full Load	Standby No Load
93	85
85	77

EMISSIONS DATA

NO _x + NMHC
2.76

0.43

PM 0.059

All units are in g/hp-hr and are EPA D2 cycle values.

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 from each engine is guaranteed to be below the US EPA Standards at the US EPA defined conditions.

RATING DEFINITIONS AND CONDITIONS

- // Ambient capability factor at 984 ft (300 m). Consult your local MTU Onsite Energy Power Generation Distributor for other altitudes.
- // 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-3046/1, BS 5514, AS 2789, and DIN 6271.
- // Deration Factor:

Altitude: 0.5% per 1,000 ft (305 m) above 5,000 ft (1,524 m) and 4% per 1,000 ft (305 m) above 10,000 ft (3.048 m).

Temperature: 0.5% per 10°F (5.5°C) above 77°F (25°C).

Materials and specifications subject to change without notice.