DIESEL ENGINE-GENERATOR SET 125-JS6DT3

125 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	125	125	125	125	125	125
kVA	125	125	156.25	156.25	156.25	156.25
AMPS	521	521	434	376	188	150
skVA@30%						
Voltage Dip	136	195	250	250	330	335
Generator Model	431CSL6204	431CSL6224	363CSL1607	363CSL1607	363CSL1607	363PSL1658
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
- // 6068HF285 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

// 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	
16 Programmable Contact Inputs	
16 Programmable Contact Inputs 7 Contact Outputs	
16 Programmable Contact Inputs 7 Contact Outputs UL Recognized, e Nus, CE Approved	
16 Programmable Contact Inputs 7 Contact Outputs UL Recognized, e Nus , CE Approved Event Recording	

// Additional Features

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: 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	Battery Charger: 6 Amp or	10 Amp
Muffler (OPU only) Sub-Base Fuel Tank w/ Electrical Stub-Up Area Weatherproof Enclosure Sound Attenuation - 1 1/2" Foam - Sound Scoops	Battery: 12 Volt w/ Rack	
Sub-Base Fuel Tank w/ Electrical Stub-Up Area Weatherproof Enclosure Sound Attenuation - 1 1/2" Foam - Sound Scoops	Circuit Breaker: Standard o	ır 100%
Weatherproof Enclosure Sound Attenuation - 1 1/2" Foam - Sound Scoops	Muffler (OPU only)	
Sound Attenuation - 1 1/2" Foam - Sound Scoops	Sub-Base Fuel Tank w/ Ele	ctrical Stub-Up Area
- 1 1/2" Foam - Sound Scoops	Weatherproof Enclosure	
- Sound Scoops	Sound Attenuation	
	-11/2" Foam	
	- Sound Scoops	
Remote Annunciator	Remote Annunciator	
Isochronous Governor	Isochronous Governor	

APPLICATION DATA

// Engine

John Deere
(0(0))F00F
6068HF285
4-Cycle
6-Inline
415 (6.8)
4.19 (10.6)
5 (12.7)
19:1
1,800
JDEC
237 (177)
±.25%
60 Hz
Dry

// Liquid Capacity (Lubrication)

Total Oil System: gal (lit)	5.28 (20)
Engine Jacket Water Capacity: gal (lit)	3.25 (12.3)
System Coolant Capacity: gal (lit)	6 (22.7)

// 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)	10 (3)
Recommended Fuel	Diesel #2
Total Fuel Flow: gal/hr (lit/hr)	28.3 (107.2)

// Fuel Consumption

At 100% of Power Rating: gal/hr (lit/hr)	8.9 (33.7)
At 75% of Power Rating: gal/hr(lit/hr)	6.9 (26.1)
At 50% of Power Rating: gal/hr (lit/hr)	5 (18.9)

// 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)	48 (180)
Heat Rejection to Coolant: BTUM (kW)	5,324 (93.5)
Heat Rejection to Air to Air: BTUM (kW)	1,821 (32)
Heat Radiated to Ambient: BTUM (kW)	922 (16)

// Air Requirements

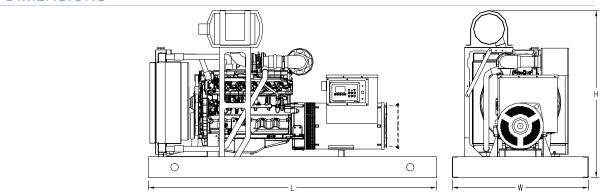
Aspirating: *SCFM (m ³ /min)	480 (13.6)
Air Flow Required for Rad.	
Cooled Unit: *SCFM (m ³ /min)	17,712 (502)
Air Flow Required for Heat	
Exchanger/Remote Rad. based	
on 25°F Rise: *SCFM (m³/min)	2,080 (59)

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

// Exhaust System

Gas Temp. (Stack): °F (°C)	941 (505)
Gas Volume at Stack	
Temp: CFM (m³/min)	1,201 (34)
Maximum Allowable	
Back Pressure: in. H ₂ 0 (kPa)	30 (7.5)

WEIGHTS AND DIMENSIONS



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	Dimensions (LxWxH)	Height w/Tank 24hr.	Weight (less tank)
OPU	110 x 52 x 64 in (2,790 x 1,320 x 1,630 mm)	82.9 in (2,110 mm)	2,821 lb (1,280 kg)
EPU	110 x 52 x 77 in (2,790 x 1,320 x 1,960 mm)	97 in (2,460 mm)	3,385 lb (1,535 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

Unit Type	Standby Full Load	Standby No Load
OPU w/ Critical Grade Muffler (dBA)	91.5	84
Sound Attenuated Enclosure (dBA)	83.5	76

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

EMISSIONS DATA

NO _x + NMHC	CO	РМ
2.86	0.78	0.104

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.

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