DIESEL ENGINE-GENERATOR SET 60-JS6DT3

60 ekW / 60 Hz / Standby 208 - 600V



SYSTEM RATINGS

Standby

Voltage (L-L)	240V**	208V**	240V**	480V**	600V**
Phase	1	3	3	3	3
PF	1.0	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
kW	60	60	60	60	60
kVA	60	75	75	75	75
AMPS	250	208	180	90	72
skVA@30%					
Voltage Dip	127	178	236	236	136
Generator Model	362PSL1604	362PSL1604	362PSL1604	362PSL1604	362PSL1633
Temp Rise	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	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
- ww//. Globah Product Support
 - // 2 Year Standard Warranty
 - // 5030HF285 Diesel Engine
 - 3.0 Liter Displacement
 - Electronic Unit Pump Injection
 - 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

// Engine

Air Cleaner
Oil Pump
Full Flow Oil Filter
Jacket Water Pump
Closed Crankcase Vent
Thermostat
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
Full Amortisseur Windings

3% Maximum Harmonic Content www.DataSheet4U.com

100% of Rated Load - One Step

125% Rotor Balancing

3-Phase Voltage Sensing

±1% Voltage Regulation

// 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, CENUS, CE Approved
Event Recording
IP 54 Front Panel Rating with Integrated Gasket
NFPA110 Level Compatible

// 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 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	5030HF285
Туре	4-Cycle
Arrangement	5-Inline
Displacement: Cu In (lit)	186 (3.05)
Bore: in (cm)	3.4 (8.6)
Stroke: in (cm)	4.1 (10.5)
Compression Ratio	18.2:1
Rated RPM	1,800
Engine Governor	JDEC
Max Power: Standby: bhp (kWm)	96 (72)
Regulation	±.25%
Frequency	60 Hz
Air Cleaner	Dry
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// Liquid Capacity (Lubrication)

Total Oil System: gal (lit)	2.96 (11.2)
Engine Jacket Water Capacity: gal (lit)	0.78 (2.9)
System Coolant Capacity: gal (lit)	4.08 (15.4)

// Electrical

Electric Volts DC	12
Cold Cranking Amps Under 0°F (-17.8°C)	750

// 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)	21.7 (82)

// Fuel Consumption

At 100% of Power Rating: gal/hr (lit/hr)	5 (18.9)
At 75% of Power Rating: gal/hr(lit/hr)	3.8 (14.4)
At 50% of Power Rating: gal/hr (lit/hr)	2.5 (9.5)

// 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)	26 (100)
Heat Rejection to Coolant: BTUM (kW)	2,590 (45.5)
Heat Rejection to Air to Air: BTUM (kW)	723 (12.7)
Heat Radiated to Ambient: BTUM (kW)	554 (10)

// Air Requirements

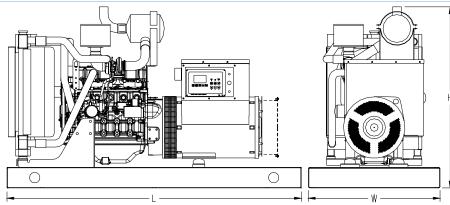
Aspirating: *SCFM (m³/min)	186 (5.3)
Aspirating. Sorivi (III / IIIIII)	160 (3.3)
Air Flow Required for Rad.	
Cooled Unit: *SCFM (m³/min)	5,765 (163)
Air Flow Required for Heat	
Exchanger/Remote Rad. based	
on 25°F Rise: *SCFM (m³/min)	1,250 (36)

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

// Exhaust System

Gas Temp. (Stack): °F (°C)	972 (522)
Gas Volume at Stack	
Temp: CFM (m³/min)	484 (13.7)
Maximum Allowable	
Back Pressure: in. H ₂ 0 (kPa)	30 (7.5)
Minimum Allowable	
Back Pressure: in. H ₂ 0 (kPa)	16 (4)

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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.

OPU EPU	System
EPU	OPU
	EPU

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Dimensions	(LX VV X 🗆	IJ

85 x 38 x 52 in (2,160 x 970 x 1,320 mm) 85 x 38 x 60 in (2,160 x 970 x 1,520 mm)

Weight (less tank)	
1,693 lb (768 kg)	
2 032 lh (922 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

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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
86.5	81
78.5	73

EMISSIONS DATA

NO _x + NMHC
3.48

CO
0.68



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.

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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 sea level and 4% per 1,000 ft (305 m) above 10,000 ft (3,050 m). **Temperature**: 0.5% per 10°F (5.5°C) above 77°F (25°C).

Materials and specifications subject to change without notice.