# DIESEL ENGINE-GENERATOR SET 75-JC6DT3

75 ekW / 60 Hz / Standby 65 ekW / 60 Hz / Prime 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	75	75	75	75	75	75
kVA	75	75	93.75	93.75	93.75	93.75
AMPS	271	271	260	226	113	90
skVA@30%						
Voltage Dip	127	235	175	175	235	235
Generator Model*	362CSL1606	362CSL1615	362CSL1604	362CSL1604	362CSL1604	362PSL1635
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

#### Prime

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	65	65	65	65	65	65
kVA	65	65	81.25	81.25	81.25	81.25
AMPS	271	271	226	195	98	78
skVA@30%						
Voltage Dip	127	235	175	175	235	235
Generator Model*	362CSL1606	362CSL1615	362CSL1604	362CSL1604	362CSL1604	362PSL1635
Temp Rise	105°C/40°C	105°C/40°C	105°C/40°C	105°C/40°C	105°C/40°C	105°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

\* The Generator Model Number identified in the table is for standard C Series Configuration. Consult the factory for alternate configuration.

\*\* 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
- // Custom Design for Any Application
- // 4045HF285 Diesel Engine
  - 4.5 Liter Displacement
  - Electronic Unit Pump Injection

# STANDARD EQUIPMENT

#### // Engine

#### Brushless Alternator with Brushless Pilot Exciter E . 1 Air Cleaners Oil Pump Full Flow Oil Filter Jacket Water Pump 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

## // 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
No Load to Full Load Regulation

#### - 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, CNUs, NFPA 110
  - Complete System Metering
  - LCD Display
- // Cooling System
  - Integral Set-Mounted
  - Engine Driven Fan

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, 🔊 📲 us, CE Approved
Event Recording
IP 54 Front Panel Rating with Integrated Gasket
NFPA110 Level Compatible

# APPLICATION DATA

## // Engine

Manufacturer	John Deere	
Model	4045HF285	
Туре	4-Cycle	
Arrangement	4 In-Line	
Displacement: Cu In (lit)	275 (4.5)	
Bore: in (cm)	4.19 (10.6)	
Stroke: in (cm)	5 (12.7)	
Compression Ratio	19:1	
Rated RPM	1,800	
Engine Governor	JDEC	
Max Power: Standby: bhp (kWm)	158 (118)	
Max Power: Prime: bhp (kWm)	144 (107)	
Regulation	±.25%	
Frequency	60 Hz	
Air Cleaner	Dry	

## // Liquid Capacity (Lubrication)

Total Oil System: gal (lit)	3.2 (12)
Engine Jacket Water Capacity: gal (lit)	3.3 (12.5)
System Coolant Capacity: gal (lit)	5.3 (20.1)

## // 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)	19.7 (74.6)

## // Fuel Consumption

	STANDBY	PRIME
At 100% of Power Rating: gal/hr (lit/hr)	6.1 (23.1)	5.5 (20.8)
At 75% of Power Rating: gal/hr( lit/hr)	4.9 (18.5)	4.4 (16.7)
At 50% of Power Rating: gal/hr (lit/hr)	3.5 (13.2)	3.2 (12.1)

## // Cooling - Radiator System

	STANDBY	PRIME
Ambient Capacity of Radiator: °F (°C)	122 (50)	122 (50)
Maximum Allowable Static		
Pressure on Rad. Exhaust: in. H <sub>2</sub> 0 (kPa)	0.5 (0.12)	0.5 (0.12)
Water Pump Capacity: gpm (lit/min)	48 (180)	48 (180)
Heat Rejection to Coolant: BTUM (kW)	3,544 (62)	3,190 (56)
Heat Rejection to Air to Air: BTUM (kW)	1,127 (19.8)	1,002 (17.6)
Heat Radiated to Ambient: BTUM (kW)	713 (12.5)	596 (10.5)

## // Air Requirements

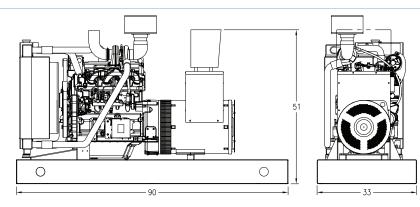
	STANDBY	PRIME
Aspirating: *SCFM (m <sup>3</sup> /min)	288 (8.2)	273 (7.7)
Air Flow Required for Rad.		
Cooled Unit: *SCFM (m <sup>3</sup> /min)	6,635 (188)	6,635 (188)
Air Flow Required for Heat		
Exchanger/Remote Rad. based		
on 25°F Rise: *SCFM (m <sup>3</sup> /min)	1,607 (46)	1,343 (38)

\* Air density = 0.0739 lbm/ft<sup>3</sup> (1.184 kg/m<sup>3</sup>)

## // Exhaust System

	STANDBY	PRIME
Gas Temp. (Stack): °F (°C)	1,076 (580)	1,040 (560)
Gas Volume at Stack		
Temp: CFM (m <sup>3</sup> /min)	805 (22.8)	750 (21.2)
Maximum Allowable		
Back Pressure: in. H <sub>2</sub> 0 (kPa)	30 (7.5)	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.

m	Dimensions (LxWxH)	Weight (less tank)
	90 x 33 x 51 in (2,290 x 840 x 1,300 mm)	2,116 lb (960 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

Syster OPU

Unit Type	Standby Full Load	Standby No Load	Prime Full Load	Prime No Load
OPU w/Critical Grade Muffler (dBA)	89	83	87.5	83
Sound Attenuated Enclosure (dBA)	81	75	79.5	75

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

# **EMISSIONS DATA**

NO <sub>x</sub> + NMHC	CO	PM
2.86	1.34	0.136

### 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.
- // Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult the factory.
- // 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 7,500 ft (2,286 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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