DIESEL ENGINE-GENERATOR SET 300-XS6DT3

300 ekW / 60 Hz / Standby 208 - 600V



SYSTEM RATINGS

Standby

Voltage (L-L)	208V**	240V**	480V**	600V**
Phase	3	3	3	3
PPF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
kW	300	300	300	300
kVA	375	375	375	375
AMPS	1041	902	451	361
skVA@30%				
Voltage Dip	765	765	520	725
Generator Model	433CSL6216	433CSL6216	432CSL6216	432PSL6246
Temp Rise	130°C/27°C	130°C/27°C	130°C/27°C	125°C/40°C
Connection	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
- // Series 60 (6063HV35) Diesel Engine
 - 14.0 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

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 - 24V Governor - Electric Isochronous Base - Formed Steel SAE Flywheel & Bell Housing Charging Alternator - 24V 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

±.25% 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, callus, CE Approved
Event Recording
IP 54 Front Panel Rating with Integrated Gasket

// Additional Features

NFPA110 Level Compatible

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: 24 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	MTU Detroit Diesel
Model	Series 60
	(6063HV35)
Туре	4-Cycle
Arrangement	6-Inline
Displacement: Cu In (lit)	855 (14)
Bore: in (cm)	5.24 (13.3)
Stroke: in (cm)	6.61 (16.8)
Compression Ratio	16:1
Rated RPM	1,800
Engine Governor	DDEC
Max Power: Standby: bhp (kWm)	490 (366)
Regulation	±.25%
Frequency	60 Hz
Air Cleaner	Dry

// Liquid Capacity (Lubrication)

Total Oil System: gal (lit)	9.5 (36)
Engine Jacket Water Capacity: gal (lit)	6 (23)
System Coolant Capacity: gal (lit)	42 (159)

// Electrical

Electric Volts DC	24
Cold Cranking Amps Under 0°F (-17.8°C)	950

// Fuel System

Fuel Supply Connection Size	1/2" NPT
Fuel Return Connection Size	1/2" NPT
Maximum Fuel Lift: ft (m)	6.7 (2.1)
Recommended Fuel	Diesel #2
Total Fuel Flow: gal/hr (lit/hr)	86.9 (329)

// Fuel Consumption

At 100% of Power Rating: gal/hr (lit/hr)	25.4 (96)
At 75% of Power Rating: gal/hr(lit/hr)	20.2 (76)
At 50% of Power Rating: gal/hr (lit/hr)	13.7 (52)

// 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)	96 (363)
Heat Rejection to Coolant: BTUM (kW)	7,950 (140)
Heat Radiated to Air to Air: BTUM (kW)	5,150 (90)
Heat Radiated to Ambient: BTUM (kW)	5,276 (93)

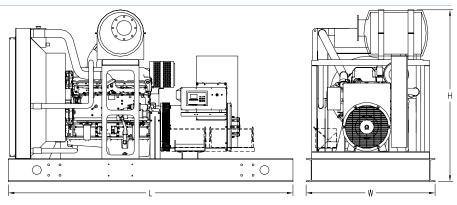
// Air Requirements

Aspirating: *SCFM (m³/min)	1,105 (31)
Air Flow Required for Rad.	
Cooled Unit: *SCFM (m³/min)	18,891 (535)
Air Flow Required for Heat	
Exchanger/Remote Rad. based	
on 25°F Rise: *SCFM (m³/min)	11,899 (339)

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

// Exhaust System

Gas Temp. (Stack): °F (°C)	944 (507)
Gas Volume at Stack	
Temp: CFM (m³/min)	2,903 (82)
Maximum Allowable	
Back Pressure: in. H ₂ 0 (kPa)	40.8 (10.16)



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																																																																								
***************************************																																																								١																

Dimensions (

150 x 68 x 90.5 in (3,810 x 1,730 x 2,300 mm) 150 x 68 x 106.5 in (3,810 x 1,730 x 2,710 mm)

Height w/Tank 24hr.

118.5 in (3,010 mm) 134.5 in (3,420 mm) Weight (less tank)

7,284 lb (3,304 kg) 8,741 lb (3,965 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

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
95	89
87	81

EMISSIONS DATA

NO _x + NMHC	
2.74	

CO
0.56



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: 1% per 1,000 ft (305 m) above 600 ft (183 m). **Temperature**: 1% per 10°F (5.5°C) above 77°F (25°C).

Materials and specifications subject to change without notice.