DIESEL ENGINE-GENERATOR SET 30-JC6DT4

30 ekW / 60 Hz / Standby 25 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	30	30	30	30	30	30
kVA	30	30	37.5	37.5	37.5	37.5
AMPS	125	125	104	90	45	36
skVA@30%						
Voltage Dip	63	64	70	90	90	122
Generator Model*	284CSL1542	283CSL1517	283CSL1507	283CSL1507	283CSL1507	284PSL1752
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	25	25	25	25	25	25
kVA	25	25	31.25	31.25	31.25	31.25
AMPS	104	104	87	75	38	30
skVA@30%						
Voltage Dip	48	85	67	67	90	122
Generator Model*	284CSL1542	283CSL1517	283CSL1507	283CSL1507	283CSL1507	284PSL1752
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

// Complete Range of Accessories

- 300% Short Circuit Capability

- UL Recognized, Mus, NFPA 110

Brushless Alternator with Brushless Pilot Exciter

- Complete System Metering

- Brushless, Rotating Field

- 2/3 Pitch Windings

// Digital Control Panel(s)

- Integral Set-Mounted

- Engine Driven Fan

- LCD Display

// Cooling System

// Permanent Magnet Generator (PMG) - Optional

FACTS

- // EPA Tier 4 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 systems 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
- // 4024TF281 Diesel Engine
- 2.4 Liter Displacement
- 4-Cycle

STANDARD EQUIPMENT

// Engine

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
EPA Certified Engine

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 Mete	ering
Engine Para	meters
Generator F	Protection Functions
Engine Prot	ection
SAE J1939	Engine ECU Communications
Windows-Ba	ased Software
Multilingual	Capability
Remote Co	mmunications to our RDP-110 Remote Annunciator
16 Program	mable Contact Inputs
7 Contact C	Dutputs
UL Recogni	zed, 🖓 us, CE Approved
Event Reco	rding
IP 54 Front	Panel Rating with Integrated Gasket
NFPA110 Le	evel Compatible
••••••	

// Generator

APPLICATION DATA

// Engine

Manufacturer	John Deere
Model	4024TF281
Туре	4-Cycle
Arrangement	4 In-Line
Displacement: Cu In (lit)	149 (2.4)
Bore: in (cm)	3.4 (8.6)
Stroke: in (cm)	4.1 (10.5)
Compression Ratio	20.5:1
Rated RPM	1,800
Engine Governor	Electric Isochronous
Max Power: Standby: bhp (kWm)	49 (36)
Max Power: Prime: bhp (kWm)	43 (32)
Regulation	±1%
Frequency	60 Hz
Air Cleaner	Dry

// Fuel Consumption

	STANDBY	PRIME
At 100% of Power Rating: gal/hr (lit/hr)	2.8 (10.6)	2.5 (9.5)
At 75% of Power Rating: gal/hr(lit/hr)	2.1 (8)	1.9 (7.2)
At 50% of Power Rating: gal/hr (lit/hr)	1.4 (5.3)	1.2 (4.5)

// Cooling - Radiator System

// Liquid Capacity (Lubrication)

Total Oil System: gal (lit)	2.1 (8)
Engine Jacket Water Capacity: gal (lit)	0.675 (2.6)
System Coolant Capacity: gal (lit)	2.29 (8.7)

// 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)	26.4 (100)

// Air Requirements

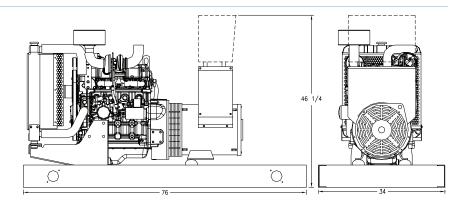
Air Flow Required for Heat			

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

// Exhaust System

	STANDBY	PRIME
Gas Temp. (Stack): °F (°C)	1,026 (552)	963 (517)
Gas Volume at Stack		
Temp: CFM (m ³ /min)	283 (8)	261 (7.4)
Maximum Allowable		
Back Pressure: in. H ₂ 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.

System	Dimensions (LxWxH)	Weight (less tank)
OPU	76 x 34 x 46.25 in (1,930 x 864 x 1,170 mm)	1,195 lb (542 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	Prime Full Load	Prime No Load
OPU w/Critical Grade Muffler (dBA)	84	74	82.1	74
Sound Attenuated Enclosure (dBA)	76	66	74.1	66

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

EMISSIONS DATA

NO _x + NMHC	CO	РМ
C/F	C/F	C/F

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: 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).

MTU Onsite Energy. Subject to alteration due to technological advances. 2009-05

Materials and specifications subject to change without notice.

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