DIESEL GENERATOR SET DP325D6S

325 kWe / 60 Hz / Prime 208 - 600V

(Reference DS350D6S for Standby Rating Technical Data)



SYSTEM RATINGS

Prime	DP325D6SPA	DP325D6SJA	DP325D6SVA	DP325D6SWA	DP325D6SRA	DP325D6SNA
Voltage (L-L)	208V**	240V**	380V	440V	480V**	600V**
Phase	3	3	3	3	3	3
PF	0.8	0.8	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60	60
kW	325	325	325	325	325	325
kVA	407	407	407	407	407	407
Amps	1128	977	617	533	489	391
skVA@30%						
Voltage Dip	930	930	635	850	1238	1100
Generator Model	433CSL6216	433CSL6216	433CSL6216	433CSL6216	433CSL6216	433PSL6248
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 LOW WYE	12 LEAD HI DELTA	12 LEAD HI WYE	12 LEAD HI WYE	12 LEAD HI WYE	4 LEAD WYE

^{**} UL 2200 Offered

CERTIFICATIONS AND STANDARDS

- // Emissions EPA Tier 3 Certified
- // Generator set is designed and manufactured in facilities certified to standards ISO 9001:2008 and ISO 14001:2004
- // UL 2200 / CSA Optional
 - UL 2200 Listed
 - CSA Certified

// Performance Assurance Certification (PAC)

- Generator Set Tested to ISO 8528-5 for Transient Response
- Verified product design, quality and performance integrity
- All engine systems are prototype and factory tested

// Power Rating

- Accepts Rated Load in One Step Per NFPA 110
- Permissible average power output during 24 hours of operation is approved up to 75%.

- // MTU Onsite Energy is a single source supplier
- // Global Product Support
- // 2 Year Standard Warranty
- // 8V 1600 Diesel Engine
 - 14.0 Liter Displacement
 - Common Rail Fuel Injection
 - 4-Cycle
- // Engine-generator resilient mounted
- // Complete Range of Accessories

- // Generator
 - Brushless, Rotating Field Generator
 - 2/3 Pitch Windings
 - 300% Short Circuit Capability with PMG
 - OPMG Standard for 570 frame and larger
 - OPMG Optional for 430 frame and smaller
- // Digital Control Panel(s)
 - UL Recognized, CSA Certified, NFPA 110
 - Complete System Metering
 - LCD Display
- // Cooling System
 - Integral Set-Mounted
 - Engine Driven Fan

STANDARD EQUIPMENT*

// Engine

Air Cleaners
Oil Pump
Oil Drain Extension & S/O Valve
Full Flow Oil Filters
Closed Crankcase Ventilation
Jacket Water Pump
Thermostats
Blower Fan & Fan Drive
Radiator - Unit Mounted
Electric Starting Motor - 24V
Governor - Electronic 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
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

105 °C Maximum Prime Temperature Rise

1 Bearing, Sealed
Flexible Coupling
Full Amortisseur Windings

125% Rotor Balancing

3-Phase Voltage Sensing

±0.25% Voltage Regulation (570 frame)

±1% Voltage Regulation (430 frame)

100% of Rated Load - One Step

5% Maximum Total Harmonic Distortion

// Digital Control Panel(s)

Digital Metering
Engine Parameters
Generator Protection Functions
Engine Protection
CAN Bus ECU Communications
Windows®-Based Software
Multilingual Capability
Remote Communications to RDP-110 Remote Annunciator
16 Programmable Contact Inputs
Up to 11 Contact Outputs
UL Recognized, CSA Certified, CE Approved
Event Recording
IP 54 Front Panel Rating with Integrated Gasket
NFPA110 Compatible

^{*} Represents standard product only. Consult Factory/MTU Onsite Energy Distributor for additional configurations.

// Engine

MTU
8V 1600 G10S
4-Cycle
8-V
14 (854)
12.2 (4.8)
15 (5.91)
17.5:1
1,800
Electronic Isochronous (ADEC)
371 (497)
±0.25%
Dry

// Liquid Capacity (Lubrication)

Total Oil System: L (gal)	46 (12.2)
Engine Jacket Water Capacity: L (gal)	50 (13.2)
System Coolant Capacity: L (gal)	80.3 (21.2)

// Electrical

Electric Volts DC	24
Cold Cranking Amps Under -17.8 °C (0 °F)	1,050

// Fuel System

#10 JIC 37° Female
M20 x 1.5 Male Adapter Provided
#6 JIC 37° Female
M14 x 1.5 Male Adapter Provided
5 (16)
Diesel #2
402 (106)

// Fuel Consumption

	PRIME
At 100% of Power Rating: L/hr (gal/hr)	93 (24.5)
At 75% of Power Rating: L/hr (gal/hr)	78 (20.6)
At 50% of Power Rating: L/hr (gal/hr)	55 (14.5)

// Cooling - Radiator System

	PRIME
Ambient Capacity of Radiator: °C (°F)	50 (122)
Max. Restriction of Cooling Air, Intake,	
and Discharge Side of Rad.: kPa (in. H ₂ 0)	0.125 (0.5)
Water Pump Capacity: L/min (gpm)	362 (95)
Heat Rejection to Coolant: kW (BTUM)	190 (10,805)
Heat Rejection to After Cooler: kW (BTUM)	95 (5,403)
Heat Radiated to Ambient: kW (BTUM)	40.5 (2,303)
Fan Power: kW (hp)	16.9 (22.6)

// Air Requirements

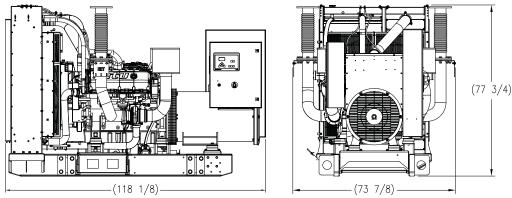
	PRIME
Aspirating: *m³/min (SCFM)	30 (1,060)
Air Flow Required for Rad.	
Cooled Unit: *m³/min (SCFM)	510 (18,010)
Remote Cooled Applications;	
Air Flow Required for Dissipation	
of Radiated Gen-set Heat for a	
Max of 25 °F Rise: *m³/min (SCFM)	147.1 (5,194)

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

// Exhaust System

	PRIME
Gas Temp. (Stack): °C (°F)	460 (860)
Gas Volume at Stack	
Temp: m³/min (CFM)	84 (2,966)
Maximum Allowable Back Pressure: kPa (in. H ₂ 0)	15 (61)

WEIGHTS AND DIMENSIONS



Drawing above for illustration purposes only, based on standard open power 480 volt generator set. Lengths may vary with other voltages. Do not use for installation design. See website for unit specific template drawings.



Dimensions (LxWxH)

3,001 x 1,877 x 1,975 mm (118.13 x 73.88 x 77.75 in)

Weight (dry/less tank) 3,652 kg (8,050 lb)

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 Typ	е			
Level 0:	Open	Power	Unit o	dB(A)

Prime Full Load

Sound data is provided at 7 m (23 ft). Generator set tested in accordance with ISO 8528-10 and with infinite exhaust.

EMISSIONS DATA

NO _x +	NMHC
4.06	

0.52

0.05

All units are in g/hp-hr and at 100% load.

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 (not shown) from each engine is guaranteed to be below the US EPA Standards at the US EPA defined conditions.

RATING DEFINITIONS AND CONDITIONS

- // 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, ISO 3046-1, BS 5514, AS 2789, and DIN 6271.
- // Deration Factor:

Altitude: Consult your local MTU Onsite Energy Power Generation Distributor for altitude derations.

Temperature: Consult your local MTU Onsite Energy Power Generation Distributor for temperature derations.

Materials and specifications subject to change without notice. C/F = Consult Factory/MTU Onsite Energy Distributor

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